# THE MICHIGAN FARMER,

# A WEEKLY JOURNAL OF AFFAIRS

# Relating to the Farm, the Garden, and the Household.

NEW SERIES.

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# The Michigan Farmer, R. F. JOHNSTONE, EDITOR.

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DETROIT MICHIGAN.

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# The Farm.

#### Field Culture of Root Crops-Beets, Carrots and Parsnips.

The importance of having an abundance of roots, for the use of stock during the winter has scarcely yet been sufficiently appreciated by the generality of American farmers. With a good supply of sugar beets, or of mangold wurtzel, or of carrots, parsnips, or ruta bagas, all kinds of cattle may not only be carried through the most trying season of the year in excellent health and condition, but with sueach head of stock daily, when finely sliced and mixed with cut hay, straw, corn fodder or chaff, will not only largely increase the yield of milk, but will improve, to an equal degree, the quantity and quality of the butter. Perhaps, in the case of milch cows, the carrot and the parsnip, from their containing more nutritive matter, should have the preference over the sugar beet; but the latter will aways commend itself to the attention of the dairy farmer, from the certainty of the returns which it makes per acre, under skillful cultivation. and from the fact that its lower series of leaves may be trequently stripped off during the progress of its growth, and fed to stock, without inflicting any perceptible injury to the crop. There is also another advantage in cultivating roots, which deserves to be taken into account: they leave the land in the best possible condition for succeeding grain crops.

The chief constituents are lime, soda, pot ash, and common salt. The amount of the latter in the roots and tops of the Beets and the Carrots, is quite remarkable, and it accounts for the fact that is recorded in the Ed indurg Quarterly Journal of Agriculture,

increasing the yield of beets from twenty-six seed. If that seed be of the beet, it should to forty tons per acre-thus showing, both be steeped in lukewarm water forty-eight from analysis and from practical experience, the absolute necessity of supplying to these crops, either in the manure that is used and which invariably contains a greater or less quantity of Chloride of Sodium-common salt-or by direct application, a due proportion of those mineral elements which are most essential to vigorous growth of the plant. In an experiment conducted by an English ag riculturist, to ascertian the largest product of ruta bagas which could be raised upon an acre of ground, he found, by analysis, that depth. one ton of this root, when dried and reduced to ashes, contained twenty five pounds of mineral constituents. One half of these consisted of potash, one-third soda, one-eighth sulphuric acid with a little magnesia, the remainder being lime, per-oxide of iron and common salt. To furnish the potash and soda, he applied to each acre thirty bushels of woodashes, mixed with 200 lbs. of Ichaboe Guano -the use of the latter being to make up the deficiency in the phosphates. To these he added saw-dust, with which he had previously bedded his hog pens, and a small quantity of sulphuric acid. He thus supplied to the field all the elements contained in the ash of the ruta baga. The result of the application showed itself at the gathering in of the crop. Upon the poorest portion of the field, the yield per acre was nineteen tons and three-quarters; and upon the remainder of the land, twentythree tons per acre. The soil best adapted to the cultivation of the sugar beet-and we select this as the type of all root crops-is a deep, loose mould, rather moist than dry, into which its long tap-root can penetrate with ease, and through which its finer fibres can ramble freely in search of nourishment. Grass lands that have been broken up the previous season, and from which a grain crop has been taken, are admirably suited to the cultivation of the beet; for by the time of planting the second year, the turf, and roots will have become completely decomposed, and the mellow Led which has thus been formed, will permit the air to pass freely through the soil, while the superabundance of decayed vegetable mat ter will absorb and retain the requisite amount of moisture. Low grounds should not, however, be chosen; especially where there is danger of the crop being drowned out if a wet ing, and boards placed slantwise sgainst the season should occur. Neither should the field be too high and steep, for in that case the But the securest method of all is to pack the rains which should nourish the plant, will rarely enter the soil to a sufficient depth. A mean betwixt these two extremes is, therefore, best, where the soil is suitable, and a choice of selection can be had.

Preparation of the Soil .- In preparing the land for the reception of the seed, deep plowing and thorough tillage is of primary importance. It is in the cultivation of roots of every description, that the subsoil plow will be found of the greatest service. The latter may and by very heavy manuring. The yield of perior economy. As a food for milch cows, a be dispensed with in growing grain crops, or bushel of sugar beets, carrots or parsnips, to in setting land down to grass; but for corn, red bushels to the acre, and of parsnips at lamb gets nourishment, after it is dropped, FARMER. beets, carrots, turnips and parsnips, whose tap roots and lateral fibres require abundance the peculiar advantage of hardiness, and in of room, both to descend below the surface this latitude may be suffered to remain in the and to spread themselves laterally, subsoiling is of signal advantage.

Before the land is plowed, twenty two-horse cart loads of well rotted stable manure: thirty bushels of wood ashes; three bushels of refuse salt; five bushels of crushed bones and one bushel of plaster mixed together, one half of which should be broadcasted over each acre, reserving the other half for the drills. Next harrow, cross harrow, and roll. When this work has been accomplished the field should be laid off in drills thirty inches apart, and in these drills should be spread the remaining half of the mixed manures and fertilizers. Wherever the manure cannot be spared, or the process is regarded as tedious or difficult, the following mixture may be re commended as equivalent to that which is in common use in England:

Manipulated Guano three cwt.; Salt three bushels: Plaster one bushel-mix. Spread, in this instance also, one-half broadcast be-fore plowing, and the remainder in the drills.

Theory the drills treather with two hours, and then drew the seed off by rolling it in lime. The result was that the wheat which cites an instance wherein the applica- Throw the drills together with two bouts of never came up. The germ was effectually tion of 3 cwt. of salt to an acre, not with the the plow, and roll lengthwise to flatten down killed.

intention of benefitting the crop, resulted in the ridges. The land is now ready for the hours before using it, when it may be drained and seeded, either with the hand, or, what is much better, by the aid of a drill harrow .-If it be carrot or parsnip seed-for the same preparatory tillage of the soil is required for every description of root crop-the seed should be mixed with moist sand twelve bours before it is sown, and should then be scattered, by a straight cast of the hand, thinly and evenly along the drills, which should in no case be marked out more than one inch in the

> Time of sowing-From the middle of April to the middle of May.

> Quantity of seed to the acre.-Of beets, four lbs.; of carrots and parsnips, respective-

After culture .- Before the plants get into rough leaf, dust them every morning, while the dew is on, with a mixture of soot and wood ashes, as a preventive against the fly and bug. When they are about three inches high thin out the beets, to stand ten inches apart in the row-the carrots to 4 inches apart, and the parsnips to six inches. Weed between the plants with the hand, and a narrow weeding hoe, and run the cultivator between the rows. A second and third hoeing should follow at intervals of two weeks, when the shovel plow should be used to loosen the soil between the rows and should be followed by the cultivator. At the final working, the earth should be drawn about the roots, when the soil should be again stirred, and the process of culture is completed.

Harvesting and Storing .- About the commencement of October; or when the leaves begin to turn yellow, and during dry weather, the beets and carrots should be taken up, and their tops cut off about an inch from the crown. After being suffered to remain for a few hours to dry, they should be removed either to a sheltered spot where a pen has been prepared for their reception, on the south side of a stone wa'l or a close board fence. They should be piled up in the form of a pyramid, and covered over thickly, either with corn stalks, or refuse hay, or straw, or with all of them to prevent the hardest frost from penetrating into the heap. A foot thick of soil may now be put over the rough coverwall to turn off the snow, or rain, or sleet. roots away in dry sand, like cord wood, in a cool deep cellar, where they can be easily obtained for use at any time during the winter, and where the frost cannot penetrate.

Average yield .- The average yield of the sugar beet under such cultivation as we have recommended, may be set down at eight hundred bushels to the acre. Larger crops than this have frequently been gathered, but they were raised under a system of high culture, carrots may be safely estimated at six hundeight hundred bushels. The latter possess ground all the winter.

#### Prolific Sheep.

F. E. Eldred has on his farm twelve southdown ewes, which, during the present spring, have borne twenty-two lambs. Can any of our readers give a better account of the stock this season ?

The Cattle Plague.

Recent accounts from Gallicia and the eastern provinces of Austria state that the at its prevalence. All cattle coming from the Austrian dominions into the Prussian provinces are subjected to a quarantine of twenty one days.

Poisoning Seed Wheat.

A correspondent of the Country Gentleman states that in 1857 he determined to try an experiment with his seed wheat, and for that purpose took the clear urine that came out of his cow stable, and which was unmixed

#### Spring Management of Sheep.

The foddering season is about to be susended in this latitude, after so long a confinement to dry food, and flocks will soon be turned out to pasture Every experienced flock-master knows that this is the most critical period for sheep, of the whole year, especially for the fine-wooled varieties. The chilling rain storms which annually come at this season; the change from dry to green feed; the feeble and delicate condition of many of the flock—old ewes heavy with together greatly increase the duties of the owner, making constant care and watchfulness necessary until the period of yeaning is past,

Whenever storms occur, sheep should be got under shelter with as little delay as possible. Where they have been closely confined during the entire foddering season, there is much danger in letting them out at once to remain in the field all the day-the flashy, watery herbage producing scours, which often destroys great numbers of those low in flesh and feeble. A much better plan is to let the flock out for a few hours each day, for a week, giving at the same time a full feed of hay and grain, and plenty of salt .--When sheep have had a free supply of roots through winter, and during the latter part of winter, there is little danger to be apprehended from a sudden change from dry food to pasture.

An important object with the careful flock master, is to keep his entire flock in equal condition as far as possible. In large flocks, there are always more or less, which on the opening of spring, are poor, comparatively, and feeble-such as ewes heavy with lamb, and yearlings. These should, by all means, be forthwith separated from the main flock, and receive extra attention.

Tagging the Sheep .- Before sheep are allowed to go to pasture, they should be thoroughly tagged; that is, all the wool from the dock down between the thighs, should be clipped; then if sheep scour, the fleece does not become filthy. Many valuable sheep are annually lost by a neglect of this trifling duty. The wool about the thighs becomes a mass of filth-often fly-blownand if not attended to early, the sheep is lost If properly and seasonably tagged, the labor of washing the sheep is diminished one half. The process of tagging may be interesting to the uninitiated. Set the sheep on his rump, on a clean floor, or on a shearing table. If a wether, cut the wool away from the sheath and scrotum; then shear from the inside of the thighs, and down the leg to the fetlock, grasping both feet with the left hand and drawing them towards him; the shearer can then clip all that is necessary at out the dock. With the ewe, the wool should be sheared permits the lamb, in its first attempts, to find the better. Ewes heavy with lamb, require to be handled with the utmost care, and the owner should never entrust this duty to careless hands, without being present to see that the most humane care is exercised.

If the hoofs of sheep need cutting or paring, now is the time to do it. While one person holds the animal on his feet, another is ready with a sharp chisel and a mallet, and

The Lambing Season. - Ewes should be kept as quiet as possible, during pregnancy. Rinderpest is making great havoc among the and treated in the most kind'y manner.cattle, and the authorities are greatly alarmed They should not be kept fat, but in good store condition through this period, and be thoroughly protected against storms. A strong, healthy offspring need not be expected when the ewe has been poorly fed, and exposed to all the rigors of a northern climate. The mother must have strength to sustain her, at lamb-birth, and good condition to support the lamb and give it size and thrift.

The field where the ewes are to fold should be dry and free from knolls and hollows, as in such situations they are likely to get cast and die. The flock-master should pass over of State land for a homestead "without mothe field two or three times during the day, ney and without price !- Gratiot News.

to guard against such accidents. Our common ewes seldom need assistance at the time of lambing. This is not the case, however, with those highly bred. They often require aid, especially if they are in either high or low condition. But let the owner not be hasty in offering his assistance; "while the throes are natural and the strength continues, no motive of curiosity should induce him to come near-not till the ewe seems to be losing strength, should he interfere at all."-'Nature," says Youatt, "in the course of twenty-four hours, will, in a great majority of cases, accomplish that which cannot be hurried on by art without extreme danger."-When aid is necessary, it is apt to frighten the ewe, and if she escapes immediately on the birth of her lamb, she will often refuse to own it. It should, therefore, by some means be at once placed before her, that by the scent and form she may recognize it as her offspring. If she shou'd continue to refuse to own it, she must be held, and a teat placed in the mouth of the lamb-an alternative which seldom fails of success .- C. Berrs, in Ohio Farmer.

#### Proposed Practice with Potatoes.

R. F. JOHNSTONE, Dear Sir:-At a meeting of the Plymouth Farmer's Club, held on Monday, April 2d, after discussing the management of the potato crop, the following proposition was submitted and adopted, viz:

That each member of the club be requested to prepare, and plant with potatoes, one eighth of an acre, as an experimental plat.-The ground to be planted in rows, both ways, as follows, viz:

One sixth of the rows with one eye in a hill. One sixth of the rows with two eyes in a hill. One sixth of the rows with one-eighth of a potato in a hill.

One sixth of the rows with one-fourth of a potato One sixth of the rows with one half of a potato in a hill.
One sixth of the rows with a whole potato in a hill.

The cultivating to be done across these ows, as follows:

One fourth, by covering the plants as soon as they are out of the ground.
One fourth, by hilling as usual.
One fourth, by hilling slightly.
One fourth, by plat culture.

Thus dividing the plat into twenty four compartments; the yield and quality of each to be separately reported at a meeting of the club to be held next November. The whole to be hoed twice, in good season, or previous to the setting of the young crop.

This proposition grew out of the very varied experience of different members of the club, as to the effect of cutting seed; and also of different modes of culture. The proposition to cover up one fourth, at the first hoeing, is for the purpose of determining whether or not, the yield is affected, if the tops of the plants are covered, in the process of kilfrom the bag and immediately about it, which ling the weeds, at the first hoeing, if that is done very early. This is published, with the the teats readily, and often saves it from be- hope that others may be induced to join us ing chilled and prostrated. The sooner a in the experiment, and report through the

Plymouth, April. 28d, 1860.

#### Progress in Gratiot County.

As a natural consequence of the fact of our splendid soil, surpassed by none in the State, and the excellent opportunity for procuring lands cheap, i. e. from 25 cents to \$1.25 per acre, new comers in pursu't of homes are beginning to flock into our county. We hear of many new entries being made in both cuts off as far as the hoof is turned or bro- State and Government lands. The Northeast township of our county, which has hi-therto been overlooked, is now being settled. Five new houses have been built there and as many new improvements commenced within a very short time. Each house contains at least one family. There is also a certainty that others will soon follow, and form a settlement sufficiently large to have a summer school. A citizen who was through that township last week, says that it contains a great deal of very excellent land, and that many choice locations are yet untaken at from 25 to 50 cents per acre. Strangers in that direction will find Bernsad Fox, Esq., ready and willing to aid them in selecting good locations, and we believe it has been with him a labor of love, rather than profit.

## The Breeding of Shorthorns.

The editor of the London Agricultural Gazette in noticing a sale of Shorthorns, recently, not bred from the Bates or Booth families, but direct from the old stock of the Messrs. Collings, remarks upon the effect of in-and-in breeding, and how it comes that so many of the best Shorthorns of the present day trace back on both sides to Favorite 252 of the English Herd Book, and takes for example one of the cows which is to be sold, called Charmer. These remarks we think will prove acceptable to many who feel interested in Shorthorn stock:

"What proportion of the intrinsic value of a bull or cow is due to individual character. and what to the influence of pedigree? Of course this individual character of the animal is itself the result of pedigree, and the question is thus indefinite. But it may be often noticed that two animals, and still more two herds shall differ in appearance, though simi lar in pedigree-and even that the better looking beast shall have the inferior descent-The calves of old cows by old sires may not be so valuable for breeding purposes as those of more vigorous parentage; and generous treatment, as compared with half starvation from calf-hood upwards, will produce very different animals. The old saying, that 'beef is made of veal,' and that 'breed goes in at the month, are the proverbial expressions of the same truth.

"It is, however, unquestionable, that the ability of cow or bull to transmit the merit either may possess, does in a great degree depend upon its having been inherited by them through a long line of ancestry. Nothing is more remarkable than the way in which the earlier improvers of the Shorthorn breed carried out their belief in this. They were indeed driven by the comparative fewness of well-bred animals to a repeated use of the same sire on successive generations of his own begetting, while breeders now-a-days have advantage of fifty different strains and families from which to choose the materials of their herd; but whether it were necessity or choice, it is certain that the pedigree of no pure-bred Shorthorn can be traced without very soon reaching many an illustration of the way in which 'breeding in-and-in' has influenced its character, deepened it, and made it permanent, so that it is handed down unimpaired and even strengthened in the hands of the ju-

"What an extraordinary influence has thus been exerted by a single bull on the fortunes of the Shorthorn breed! There is probably hardly a single pure-bred Shorthorn that is not only descended from 'Favorite' (252), and not only descended in a single line-but descended in fifty different lines. Take any single animal, and this bull shall occur in a dozen of its preceding generations, and repeatedly up to a hundred times! in the animals of some of the more distant generations. His influence is thus so paramount in the breed that one fancies he has created it, and that the present character of the whole breed is due to the 'accidental' appearance of an animal of extraordinary endowments on the stage in the beginning of the present century. And yet this is not so; he is himself an illustration of the 'breeding in and-in' systemhis sire and dam having been half brother and sister, both got by Foljambe. And this breeding in-and-in has handed down his influence to the present time in an extraordinary

Take for instance, the cow 'Charmer,' from which, as will be seen elsewhere, no fewer than 32 descendants are to be sold next Wednesday. She had of course two immediate parents, four progenitors in the second need great watchfulness, if, as is supposed by generation, eight in the third, sixteen in the fourth, the number necessarily doubling each step farther back. Of the eight bulls named in the fourth generation from which she is descended one was 'Favorite.' She is one six' teenth 'Favorite" therefore on that account But the cow to which he was then put was also descended from "Favorite," and so are each of the other seven bulls and seven cows the gr. gr. g. dam of 'Charmer.' And in disease, for while they breathe there is no safefact it will be found on examination that in se far as 'Charmer's 'pedigree is known, which it is in some instances to the 16th generation, she is not one-sixteenth only, but nearly ninesixteenths of pure 'Favorite' blood. This arises from 'Favorite' having been used repeatedly on the cows descended from himself.

"In the pedigree of 'Charmer' we repeat edly meet with 'Comet'-'Comet' was by 'Favorite,' and his dam 'Young Phoenix' was also by 'Favorite;' with 'George'-' George was by 'Favorite,' and his dam 'Lady Grace' was also by 'Favorite;' with 'Chilton'-'Chil ton' was by 'Favorite' and his dam was also was by 'Favorite;' with 'Minor'-' Minor'

was by 'Favorite,' and his dam was also by Favorite; with 'Peeress"-she was by 'Fa vorite, and her dam also by 'Favorite;' with Bright Eyes'-she was by 'Favorite,' and her dam also by 'Favorite;' with 'Strawber ry'-she was by 'Favorite,' and her dam by Favorite; 'Dandy,' Moss Rose,' among the cows, and 'North Star' among the bulls, are also of a similar descent. There is no difficulty therefore in understanding how this name appears repetedly in any given generation of the pedigree of any given animal of the Shorthorn breed.

"In the case of 'Charner' we find of her gr. gr. dams one was the produce of 'Favor ite.' None of her progenitors in the immediately preceding generation were the produce of that bull, but of those in the next and sucessive generation preceding, there were so far as known 2, 8, 25, 58, 101, 99, respectively got by him. Of course these are not all separate individuals. When cousins marry their offspring counts as great grandmother and father the same individuals twice; and n such intricate combinations as an in-and-in bred Shorthorn exhibits the same individuals occur repeatedly. This does not, however, affect the result—which is, that the blood of Favorite' exists in even greater quantity in individual animals 10 and 12 generations from him than it did in many a calf which he got himself. Of course this tells on the perma nence of the character possessed by such ani mals as 'Charmer' thus descended, whose pro duce is to be sold next Wednesday."

#### The Cattle Sickness in Massachusetts.

The cattle sickness which prevails in Mas sachusetts has attracted the attention of the Legislature of that State, and a commission has been appointed, with powers to provide for its extirpation, if that be possible .-The commission consists of Paoli Lathrop, of Hadley, Richard S. Fay, of Lyon, and Amasa Walker, of North Brookfield. They have power to destroy all cattle that they may find affected with the disease, to purify the premises where the cattle have been kept, and to take such other means to prevent it from spreading as may be considered necessary,-The cattle destroyed by the commission are to be appraised before they are killed. It is settled that the disease with which the cattle have been affected is what is called the Pleeno pneumonia, and its introduction is attributed to the cattle which Mr. Chenery imported from Holland, at a large expense, for the purpose of improving the milk stock. This gentleman has lost very largely by the disease' and the commissioners, after an examination, have nearly destroyed his whole herd. In the latest edition of Flint's work on milk cows and the cairy, there is an appendix which gives a description of this disease, which has been the cause of much loss in Great Britain as well as on the Continent .-The disease is infectious in the highest degree and was unknown in Great Britain till 1840. when it was introduced by some cattle that were brought from Ireland. It has recently been found that its attacks are less fatal, and much mitigated in all cases where cattle have been inoculated for it at an early stage of the disease. The great trouble has been that the disease may exist for a long time in what is called its first stage before it is noticed, and when it gets into the advanced or second stage, it is very doubtful whether any remedial can prevent it from being fatal; in its third stage it is always past remedy. It is earnestly to be hoped that the efforts of the Massachusetts commissioners may nip this destructive dis ease thus early after its accidental introduction on this side of the Atlantic, but it will those who have given it attention, the infectious matter is exhaled from the diseased lungs of the cattle that are affected with it, and thus carried by the atmosphere into the lungs of others, which may or may not be in the same stable or yard. It is with this view of the disease, that the commissioners have been empowered to adopt the more energetic method of eradicating it, by destroying every animal which stand on the same level of descent with that may be found at all touched with the guard from infection by the cattle in the immediate vicinity.

> Onts and Peas. One of the very best mixtures of seed where cats are grown principally to feed ones own stock, is a bushel of Canadian field peas per acre sown amongst the oats. The peas ripen without diminishing the crop of grain, and make a very great addition to the value of the oats. In fact, those who thus grow oats and peas find that the oats do better, as the pea vines help to shade the ground, and thus to render the soil less susceptible of the effects of dry weather, giving the oats more

time to grow and fill out.

#### Salt Boring in Michigan.

Communication from Professor A. Win chell, State Geologist.

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STATE GEOLOGICAL SURVEY, UNIVERSITY OF MICHIGAN, Ann Arbor, Feb. 16, '60, 1 perintendent of Saginaw Salt Works Dear Sir: My assistant, Dr. Miles, having anded me a transcript of the register kept, 467 the ball of which I unhanded me a transcript of the register kept, of the boring of the salt well, of which I understand you now have the superintendence, I have attentively compared this register with 569 records kept at Grand Rapids, and with my own observations in various parts of the lower peninsula. For the purpose of facilitating 598 605 this comparison, I have condensed and generalized all the sets of observations. The result is, that I find in all the sets a reasonable degree of correspondence, and am enabled to state, with considerable certainty, what may be expected in your future operations. As these comparisons may possess some interest for you, I take the liberty to communicate

I present, first, a list of the rock formations observed by me in the lower peninsula of our

I. CARBONIFEROUS SYSTEM. Coal measures consisting of—
 Woodville sandstone, [the "overlying" sand [b] Shales, Coal, Fireclays, Sandstones, Iron

one, &c. [e] Parma Sandstone. [d] Cherty Sandstone [Probably the coal "con omerate."] 2. Carboniferous Limestone:

2. Carboniferous Limestone:
[a] Upper [not seen S. of Grand Rapids.]
[b] Red arenaceous limestone, 5 ft.
[c] Lower—Grand Rapids, Bellevue, Parma,
Spring Arbor, &c.
3. Gypseous Series—Shales, Clay, Cherty Limestone, Gypsum, Salt.
4. Napoleon Series, consisting of:
[a] Napoleon Sandstone.
[b] Striped Sandstone.
[c] Iron Stone—not universal—4 in.

LI. DEVONIAN SYSTEM.

II. DEVONIAN SYSTEM. 5. Marshall Series.—Hillsdale, Jonesville, Marshall, Battle Creek, Holland, Point aux Barques

[a] Marshall Sandstone.
[b] Shaly Micaceous Sandstone.
6: Shale Series, abounding in Kidney Iron Ore.
7: Monroe Limestone.

I next present you with a condensed view of the borings at the State Salt Well near

or n	10 00	Link	at the state sait went hear
Gran	nd Ra	pids	ing in aver it
At depth of	Intervening thickness.	Thickness of formations.	Description of Rocks, &c.
PT.	FT. 40	40	Alluvial, &c. 5-6 ft. clay, then sand
40 47	7		and gravel.  "Clay;" Gypsum 6% ft.  "Very hard rock, supposed to be hornstone."
48	18	21	"Clay" and "Slate" alternately with % in, "hard rock" once in % inches.
61	109		"Sand rock," "hard." At 68 ft., spring water brackish, cavity 3 in.; sand rock continuing; softer, with nume-
170	9		rous cavities; brine strengthening: rock harder at 104 ft. "Mixture of Clay and sand—quite hard."
179	. 5	128	Clay slate.
184	101		Hard sand rock, 19 ft.; cavities, water very salt; "soft sandrock" at 204 24 ft., "very hard" 245-246; soft 247-276 At 265 feet., brine overflowing pro- fusely and increasing to 284 ft.
285	2		"Blue Clay."
287	20		"Common Sandrock."
807	24		"Ash colored clay and sand rock," "about equal parts,"
881	12	159	"Sandrock quite hard."
848	180	180	"Clay rock." Water doubled at 361 and somewhat stronger. From 417 421 very soft like blue clay, then a few black gravel stones—then shale continuing to better.

The following is the record at Lyons' Salt

well	, Gra	na n	apids:
At depth of	Intervening thickness.	Thickness of formations.	Description of Rocks.
14	12 6	19	Limerock, lower 9 feet geodiferous.  "Yellow sandrock," [Probably lower arenaceous beds of the limestone.]
20 22 27	5 47		"Blue Clay."  Coarse reddish sandrock."  Argillaceous beds understratified with
74	7		gypseous deposits.  "Very hard, sharp gritted, bluish sandrock," 76 ft. fresh spring.
81	19		"Clay rock," "First indications of salt."
100	79		Argillaceous beds sometimes sandy.
179	1		"Hard sandrock." [These layers are also called "Water.ime."
180	11	171	Clay rock.
191	109		Sandrock, varying from "dark" and "hard" to "white" and "soft," [19] ft.] "dark blue," [216,] "coarse, loose and reddish, [248.] Cavity of in. and great spring of water at 264, feet.
800	9	118	"Clay rock intermixed with fine par-
809	66		ticles of sand." Sandrock, varying between "hard," "coarse," and "loose."
875	14		"Clay and sandrock of about equa
889	84		"Sandrock, coarse, loose—of about an ash color."
423	12		"Clay and sandrock of about equa
435	11	137	"Coarse, loose sandrock;" water doubled and more salt,
446	18		"Clay rock."
465	2		Sandrock.
467	194	214	Clayrock. One foot of sandrock a
661	mi		Clayrock continuing. Temperature of water in well, 50% deg. Fah.

Condensed view of the borings at East Sagnaw, as kept by Dr. Lathrop:

hickness & Description of Rocks, &c. Alluvial and Diluvial mai 79

105 105 Limestone, embracing 5 beds of "sandstone," from 6 in, to 2 ft. thickness (the uppermost bed 5½ ft.,) and terminating in an arenaceous limestone with shaly matter.

Shales. Sandstone, Sal. 26 deg.
Shales with intercalated sandstones 6
in, 2 ft. thick. Sal. 44 deg. 60 deg.
fine sandstone, blue. Sal. 64 deg. at
069 ft. ["Waterlime?"]
Dark shales. 568 ft. ["Waterime?"]
Dark shales.
Fine blue sandstone, ["Waterlime?"]
3% ft. shale at 590% ft.
Greylsh, coarser sandstone with angular grains.
Dark shales.
Sandstone, hard, becoming micaceous—at 610 ft. calcareous.
Dark shales.
Limestone, hard, brown.

Fine sandstone, continuing at 647.
Brine nearly saturated. On inspection of the first of the foregoing

tables, you will perceive that the boring commenced in the lower part of the "Gypseous Series." It struck the "Napoleon Series" at 61 ft., the "Marshall Series" at 184 ft., and the "Shale Series" at 343 ft., which it penetrated 130 ft.

The boring at Lyon's well commenced in the "Carboniferous Limestone," which was here 19 ft. thick. It struck the "Gypseous, Series" at 20 feet., the "Napoleon Series" at 191 ft., the "Marshall Series" at 309 ft., the "Shale Series" at 446 ft., and continued in this 214 feet.

The boring at Saginaw, after passing through a great thickness of alluvial and diluvial materials, struck upon the "Woodville Sandstone" at 92 ft., the Shales, &c., of the "Coal Measures" at 171 feet., the "Parma Sandstone" at 294 ft., the "Carboniferous Limestone" at 399 ft., the "Gypseous Series" at 464 feet., and the "Napoleon Series" at 633 ft. I consider some of the so-called "srndstones" penetrated between 92 and 294 ft., to be the "Fireclays," which are probably here, as well as at other points in the State, sufficiently arenaceous to be mistaken for sandstones. I should have expected some traces of gypsum between 464 and 633 ft .the more so because that rock crops out on the Bay shore to the east and north of you .-I may further remark that the lower boundary of the gypseous series does not seem to be as well defined here as at Grand Rapids. I hardly know whether to say it terminates at 605 ft. or at 633 ft.

I have also compared these records with those obtained at three other wells in Grand Rapids. The results deduced from the whole may be tabulated as follows:

Table Showing Thickness of Formations a the various Salt Borings of the State.

Co.'s, G. 

If the deductions contained in the foregoing table are correct, your present position is in the upper part of the "Napoleon Series" of sandstones. Judging from the experience at Grand Rapids, and from my observations on the out-crops of the lower rocks, you will next find 250 to 300 feet of Arenaceous rocks some reason for believing that this entire series is somewhat saliferous, but I am not justified in advising you to explore these lower formations, in the hope of any results more favorable than you have already attained -They have already been twice explored at Grand Rapids, and Mr. Butterworth is now engaged in penetrating to a depth at least equal to that reached by Lucius Lyon. There are copious springs of water at the bottom of the Marshall Series, and also at the bottom of the Napoleon Series, and the admission of this fresh water into your well, might do ma terial detriment to the success which you have already achieved. All of the strong brine anywhere obtained in this State has proceeded from the lower half of the Gypseous Beries. I his you have now pierced, and have obtained a brine sufficiently concentrated for any purpose. I anticipated that this brine would rise to the surface. I am unable to explain why it rises no higher than it does .--Perhaps the out crops of the saliferous beds are too low. Perhaps the resistance of these argillaceous strata to the percolation of the water prevents it from obeying with facility the well known laws of hydrostatics. I apprehend, however, you will not discover a strong brine at any point lower than this' which will overflow at the top. We must probably content ourselves, in this State, with raising the salt water by pumps. There are, indeed, very few brine wells in our country, where the same necessity does not exist. prize weighed fifty rounds to the bushel.

I believe that means will be devised, if not already known, for doing this work at little expense; or that should this difficulty not be removed, the superior strength of your brine, the comparative cheapness of fuel, and your location upon navigable waters which stretch many hundred miles in every quarter to the west of your meridian, as well as to the east of it, will enable you to compete profitably with any other source of supply to the Northwestern States.

The foregoing statements may not be necessary for your information, but as this attempt, like any other, to develope the mineral resources of our State, becomes naturally under my cognizance, and excites my interest, I have deemed it sufficiently appropriate to make this communication.

I am very respectfully yours,
A. WINCHELL,

State Ges legist

## MICHIGAN STOCK REGISTER.

## SHORTHORNS.

Numbers with an "e" following them refer to the English Herdbook—all others refer to the American Herdbook, unless otherwise noted.

No. 132—GIPSEY.—Red and white heifer.— Calved January 5, 1856. Bred by the Shakers of Warren county, Ohio, and purchased by J. B. Crippen of Coldwater, Mich.; sold by him to Henry Warner of Dexter, Mich. (See page 426, Vol III., Am. Herd Book.

Am. Herd Book.

Sire, Locomotive 645,

Dam, a cow by Andes, 213, by Orion, 780, out of

Lelia by Oliver, 2387 of the English Herd-book.

1g dam. — by Kentuck, by Cincinnatus; he by

Berryman 3143e, out of Clarkson's Emma, which
sold for \$1,350 at his sale.

2 g dam, — by Baron Steuben 3097e.

3 g dam, — by Reformer 2118, by Tecumseh 5409e,
out of Mrs. Motte by Adam 717.

4 g dam, — by Mohawk 4492e.

5 g dam, — by Comet 1882e.

6 g dam, a cow bred from the Kentucky importation

6 g dam, a cow bred from the Kentucky importation of 1817.

DEVONS.

No. 42-OXFORD. Calved June 25th, 1859. Bred by J. Ballard & Sons, Niles, Mich. Sire, Jack Downing 459. 1 g sire, Dibble 176, imported. g sire, Oxford 89. 8 g sire, Forester 46.

Dam, May Flower 1400, by Coke 160. 1 g dam, Rosa 166, by Dibble 176. 2 g dam, Beauty, 1172. 8 g dam, Victoria 1206, by Holkham 217.

No. 43.—LINDA. (1378) 3d Vol. Devon Herd Book. Bred by and the property of J. Ballard & Sons, Niles, Mich. Calved Aug. 15th, 1858. Sire, Jack Downing 459.

Dam, Jenny Lind 1842, by Coke 160. g dam, Crescent 1212, by Splendid 814.

#### Seed Corn Experiments.

The Republican of Bureau County, Illinois, publishes the following account of some experiments made with corn, for the purpose of testing whether steeping benefitted seed or not:

Last year Dr. Chamberlin, of this place, nade some practical experiments with chloride of lime, and although he claimed nothing more than the application of a well-known principle, he demonstrated the fact that nearly half the time might be saved in germinating the seed by the use of chloride of lime.

Not satisfied with the success of last year, the doctor is again in the field of experiment. In his office he has four boxes; in the first is corn planted without soaking, and the seed not germinated; in the second, the seed was soaked in warm water, which has just commenced to germinate; in the third is seed soaked in a solution of chloride of lime, and green blades are just peeping from the ground; in the fourth is seed soaked in a soand then over 200 feet of shales. I have lution of chloride of lime and copperas, in equal parts, and the blades are now nearly three inches above the ground. All the seeds were planted at the same time, in the same quality of soil, and taken from the same ear. The boxes bave all had an equal share of heat the other.

This experiment should attract the attention of farmers. We conclude from four to six weeks may be saved by the use of chloride ordinary moment when we reflect that a delay in the germination of the seed of two weeks frequently places the crop within the reach of the frost in the fall. Another fact of some importance may also be mentioned: The copperas used in soaking will prevent the birds, squirrels, worms, &c., from eating the

Dr. Chamberlain assures us that one pound of chloride of lime and one pound of copperas, in water, will soak enough seed for wenty acres. The cost will not be over twenty-five cents. Every farmer could afford to make the experiment even if he should fail to derive any benefit from it.

Canadian Oats. Some samples of Canadian oats which have been introduced into Scotland, and grown there, have been found to improve in weight, so much that a sample shown as a

# The Garden & Orchard.

Bright on Grape Culture.

"Bright's Single Stem, Dwarf and Renewal System of Grape Culture," is the title of a little volume of 120 pages, by William Bright, of Logan Nursery, Philadelphia. It comes before the public, as the herald of an alleged simplification and improvement of the ordinary modes of pruning and managing a plant, which is rapidly assuming an important position in connexion with the horticulture of our county; and, at a time when a real simplification of the subject, so as to bring it down to the capacities and wants, not of amateurs only, but also of occasional practitioners, is beginning to be much needed.

"The author believes that his system is, beyond all question, the best that can be adopted for grape culture, in America, in ali cases. It is, in the main, a method of fruiting the vine on a single short cane with very short lateral branches; growing new wood from the main stem one year, and fruiting it the next; dwarfing the vine by a definite rule of stopping and pruning, and renewing the entire wood of the vine, (except a small portion of the main stem,) every other year." This system the author claims to be equally applicable to both foreign and native grapes, under either pot, grapery, trellis, arbor, or vineyard culture.

In opposition to the practice heretofore so strongly advocated, of deep trenching and enriching, and spicing grape borders with the carcasses of dead animals, the author remarks,-" We also advocate, more strictly and emphatically than any other writer that we know of, shallow and moderately rich borders, very shallow planting, surface manuring and heavy mulching, as necessary to success in grape culture." This is in accordance with the more recent practice of many of our most scientific as well as practical horticulturists; and, as it is based upon the experience of the author, it may be taken as an encouragement of the present tendency to more shallow culture, with surface manuring or topdressing.

Perhaps the most attractive feature of the work is the chapter on the dwarfing and culture of the vine in pots, by which, even with. in the confines of a city residence, a taste for the culture of this fruit may be gratified, and grape. A good supply of black, carbonace plants, with their fruits still upon them, may be kept for weeks, or even months, as ornaments to the parlor; while, to the possessor of a small green-house, this system offers the means of growing the foreign grape, in variety and abundance, at a very slight expense.

For cultivation in the vineyard or garden, the author recommends the thorough pulverization of the soil, by giving as many as twelve plowings and harrowings; which, he remarks, "is probably of more consequence than even manuring." He also adds, "We are quite of the opinion that a good old pasture soil, where no trees, grain, or vines bave grown for twenty years, is the best of all soils for the grape, and that it cannot be greatly improved, for the growth of the vine, for a year or two, by any sort of manuring whatever." This opinion is greatly in contrast with the more common talk about trenching and enriching three or four feet deep, with a correct, is, certainly, a godsend to many who as needed, and thus invite the roots upward have been deterred from planting this fruit, into the warm, rich surface soil, instead of from the labor and expense attending it. Having prepared the ground, the author recommends to plant the vines two feet apart in the row, and grow all the vines alike the first will cause too luxuriant a growth of wood.year, pinching them off at the top of the s, stopping all laterals, in a ternate cane is to be cut back, leaving only peat or sod, as a top dressing, in the fall or alternate ones to fruit the second year, while the others are being reproduced to succeed them; thus fruiting and resting the vines alternately.

With the author's system of surface culture and shallow planting, mulching becomes indispensable. This he proposes to effect by planting drills of the Southern Field Pea, or Cow Pea between the rows, to be cut during the early part of September, when it comes into flower, and turned under as manure.

His objections to the "Ohio German system " of vineyard culture seem to be based on correct principles, and commend themselves to the careful consideration of vineyard planters.

We would, also, call attention to the author's plan for inside, divided, borders for vineries, as well as his method of controling the temperature and moisture of the roots of vines, by means of what he styles "atmospheric conduction." By means of these devices the roots, as well as the tops are placed under the control of the grower, who is en-

secure the early ripening of the wood, while the roots of each plant are confined with their appropriate limits, so that any plant can be replaced or removed, at any time, without danger that it may be robbed by the stronger ones adjacent. The objections urged against locating the border of a forcing house partially or wholly without the building, appear to be unanswerable; while these objections seem to be effectually obviated by the use of the inside, ventilated border recommended.

The subject of special manures for the grape occupies several pages, and, to an observant, thinking man, may furnish valuable food for reflection. Its main object seems, however, to be to set forth the good qualities of the author's special fertilizer: a substance which may be convenient and desirable to those who can have ready access to it, and, who have not the time, or the information necessary to the manufacture of an equivalent

A short chapter is devoted to Pear Trees on Quince Stocks, in which the author applies to them his principle of moderately deep culture, surface manuring, shallow planting and mulching, as a means of keeping the roots near the surface. Another chapter takes into consideration the merits of the practice of shallow planting in general.

The treatise is obviously the work of a thinking man, who has a thorough, practical acquaintance with his subject, and, whatever may be thought of some of his positions, every man who has a vine to plant, or to manage, will find in it practical information worth many fold the cost of the volume.

Plymouth, April, 28d, 1860.

#### Soil for Grape Vines.

Wm. Bright, in his late treatise on grape culture, gives the following directions for the planting of grape vines in gardens and small

SOIL FOR THE GRAPE. The best soil for a vineyard is undoubtedly a good sandy loam resting upon a gravelly and but slightly clayey subsoil. If the soil contain a good deal of soft, rotten rock, mica, and especially limestone, so much the better. Soft rock and mica, by their decomposition, furnish potash, or silicate of potash, which, with lime, constitute two of the most important inorganic elements of the

ous loam, is essential to the soil of a vineyard, and if not present, must be added by sod and peat composts, or plenty of well rotted manure and straw mulching. It is not necessary, under the method of culture recommended in this work, that the soil should be trenched three feet deep, or more, as is advised by some writers, Indeed, if the soil be good, and the subsoil be porous or well drained, we think deep trenching not only unnecessary but positively injurious to the long-continued health and fruitfulness of the vine. If the vineyard be deeply plowed and subsoiled, or otherwise worked, so as to give eighteen inches of good mellow, well pulverized earth, it is all that is required. We do not desire to invite the roots of the grape down into the subsoil. We do not consider it necessary to manure the whole soil heavily before planting a vineyard. It is a waste of valuable mafree sprinkling of "dead horses," "guano," terial. We prefer to work the manure into "plaster," "super-phosphate," &c.; and, if the surface of the earth, from year to year, terial. We prefer to work the manure into

downwards into the cold, sterile subsoil. We do not consider a very rich garden soil by any means the best for the grape. It We prefer to apply a top dressing of good well-rotted stable manure, hog manure, or with specific directions. In autumn, each al. slaughter-house offal, well composted with stock, and disappoint the expectatious of the early spring, before using the special manures guine. Those, too, who engage in the cul recommended in another part of this work. This will enable the vines to perfect a good derate views, must make up their minds to crop of fruit, or to form the necessary amount of wood, each year, without exciting a late growth of succulent canes, liable to be winter-killed. As to the quantity of stimulating manure required, we will say that it should be about the same as for an acre of wheat, say twenty to fifty horse loads of good, rich, carbonaceous and ammoniacal compost per acre, every year or two; or 300 to 600 pounds of good guano, composted in the same way, paper,apparently,too, on good data; but which or mixed with an equal bulk of plaster, well never were, and never will be realized in moistened, a week or two before using it.

The special manures required for a crop of grapes, in the vineyard and in pot culture, will be described in another section of this work.

PREPARATION OF THE SOIL FOR GRAPE VINES. The thorough preparation of the soil for the grape border, or the vineyard, by plowing, harrowing, rolling, spading, raking, etc., is harrowing, rolling, spading, raking, etc., is burgh, Tentham Black, Black Prince, Chaptal, probably of more consequence than even that Chasselas Vibert, Royal Muscadine, Muscat de Sarabled to dry off the border, if desirable, to of manuring; and by "thorough preparation" belle, Muscat St. Laurent.

we mean more than the reader, unless he is a skillful cultivator, has any idea of. We mean twelve plowings and harrowings, instead of two. We mean one fall plowing, left rough for winter freezing. We mean the breaking up of all lumps of earth with the spade; the most perfect and minute division of the soil that is possible, so that it shall be left at last, as light as bolted flour. It is in such a soil as this that the grape vine delights -a soil which has been worked over and over, in a partially dry state, a dozen times at least, and allowed to sink into a beautiful consistency by its own gravity, without any pressing or treading. We are quite of the opinion, that a good old pasture soil, where no trees, grain, or vines have grown for twenty years, is the best of all soils for the grape, and that it cannot be greatly improved, for the growth of the vine, for a year or two, by any sort of manuring whatever. In such a soil, the vine grows naturally, luxuriantly and healthfully. It is the best of all soils for a grape border, and only when we come to fruit the vine heavily, do we need manures and fertilizers to sustain it. It is a great mistake to suppose that a grape vine, newly set in a border, must at once be fed with an abundance of rich and stimulating manure There is no objection to the application of an abundance of well decomposed sod or peat compost, made with one fourth part of stable manure, and some leaf mold and bone dust But people do not rightly understand the meaning of the phrase "well decomposed" It requires either the use of powerful chemi cal agents, or a year or two of time, to render stable manure and peat really " well decom posed." It must be reduced to a state analagous to that of an old garden soil, in which it is impossible to distinguish any of the various ingredients of which it is composed. In this condition, all the vegetable matter is converted into a sort of humus, and all inorganic substances are either in a soluble state, or ready to become so; the acids and alkalies are in a neutral state, or in the shape of harmless salts; moisture is abundant, and ammonia is not wanting. Such preparation of the soil, and such composts, suit the grape vine a great deal better than animal offal and raw bones, which in vine borders we trust have had their day.

#### Italian Bees.

From the letter written by Samuel Wagner, of York, Pa., to Dr. Kirtland, in reference to the recent bee-keepers' convention, we extract the following words of caution with reference to the above named bees:

To guard as much as possible against disappointment and failure, great care and prudence must be inculcated, and the sanguine expectation of a very rapid multiplication of pure stock, which certain statements and promises, emanating, I think, from the Patent Office, are calculated to foster, should be repressed. The multiplication of pure stock must necessarily be a slow process; and those who really desire the perpetuation of the race, and its ultimate wide diffusion, must resolve to treat the business with the care and circumspection it requires and deserves .-This is important, so that when the Italian bees come to be denounced as a humbug, (as they are sure to be, in consequence of the mismanagement and carelessness of many who will be in haste to procure and increase them,) there may be found reliable persons in all sections of the country, to whom an appeal can be confidently made for the true character and value of the insect. Rapid multiplication, and the disposal of untested queens, will infallibly tend to discredit the earnest, as well as the calculations of the santure with the most honest purpose and moencounter many unanticipated difficulties, and suffer repeated disappointments. Yet they should persevere, slowly but resolutely. them, if they would make sure progress, or they will find that in this, as in other affairs, "haste makes waste." Even in t e culture of common bees, it is very easy to make calculations of splondid results andlarge profits-on

Orchard Houses. The Gardener's Chronicle states that orchard houses are now to be seen in all directions, since the publication of Mr. Rivers' little manual on their tructure and management. The seventh edition of that work has been issued. Vine houses have been made on the principle of these orchard houses, and the sorts recommended are strong growing and good bearers, such as Black Ham

#### The Economy of old Combs in Hives.

Bee-keepers are generally aware, says Mr. Langstroth, that it is a great saving to preserve all the worker brood combs and use them over again which cannot possibly be done excepting in the moveable comb hive .-It is a well ascertained fact, that it takes twenty pounds of honey to make one pound of wax. T. is will not appear so strange if we bear in mind that wax is an animal oil or fat, and that a pound of honey when digested by the bees, will no more produce a pound of wax, than a pound of hay or corn eaten by an ox would produce a pound of fat. By all means therefore, secure every square inch of comb possible. The manner of using it is to fasten it into the frame, by dipping its edges into hot wax and rosin melted together, or when its size admits, cutting it to the proper shape, and stuffing it in tightly with the fingers. Give the frame thus prepared to a new swarm, and the advantage they will derive will be a saving of the honey it would take to make the comb, also the time they would lose in building them. By this system of management, the weakest and the latest swarms may be built up to become as strong as any in the country.

#### New Annual Flowering Plants.

In the April number of Hovey's Magazine, we find the following list of annuals of recent introduction, which are distinguished for their profusion of showy blossoms commencing in June and continuing uninteruptedly till cold weather. They have been cultivated by the Messrs. Hovey in their collection, and only include those that are new and have a fine ornamental effect in the flower garden:

1. Callirrhoe pecaca.-This is one of the finest annuals, or biennials, yet introduced from Texas. If planted early, in a frame, it flowers well as an annual, but as a biennial it makes a much finer display, often growing from six to eight feet high, and flowering from June till frost. The flowers, which are produced on the terminals of the branches, in long open spikes, are of a bright crimson, with a white eye. The young plants should be well protected through the winter.

2. Cerinthe gymnandra .- A curious aunual, growing from one to two feet high .-The flowers, which nearly resemble in shape the common Borrage, except much larger, are of a dark brown and yellow, appearing in one-sided, raceme-like clusters, from June till October.

3. Cerinthe major fl. lutea .- This is another pretty species, with ye'low flowers, and much dwarfer habit. Both are hardy annuals, and should be cultivated in every gar-

4. Chrysanthemum Burridgianum. - A beautiful new seedling variety of the old and well known species C. tricolor. The flowers are snow white, with a bright crimson circle towards the base of the peta's, which is belted with golden yellow. This annual flowers best in cool weather, when the rich crimson contrasts well with the white petals and brown centre. Height, one foot.

5. Chloris radiata.—A very curious grass, from the West Indies. The flower stems are from nine to twelve inches high, with flower spikes, radiating from the extremities, like the spokes of a wheel. It is easily cultivated, and forms a neat and compact plant.

6. Cosmidium Burridgi.—This is a fine coreopsis-like flower, with orange border, and dark crimson centre. Height from twelve to eighteen inches.

7. Datura Carthaginensis .- A new white The Peach Crop. flowered species of much beauty, growing from three to four feet high. The foliage is much like D. metel, but the flowers are larger is from June to September.

8. Fenzlia dianthiflora .- A beautiful Californian annual, of very dwarf and compact habit. Flowers, bright rose, with fine dark red spots surrounding a bright orange eye -"Festina lente" must be the rule adopted by This fine annual is well adapted for bedding, and also flowers well when cultivated in pots. The seed is very small, and produced sparing-

9. Gymnopsis uniscrialis.—Is an annual, growing from two to three feet high, with yellow ray flowers appearing on the terminals of the branches. It should be planted on the back of the border, as it makes a large

10. Helichrysum branchyrynchium.-This is a neat little everlasting flower, with a very dwarf and branching habit. The flowers are bright yellow, and continue in blossom all

11. Ipomea hederacea super ba -A fine new hybrid variety, originating between Ipomæa fear those who anticipate the gratification of feasthederacea and I. limbata, having the bright ing on this luscious fruit (this season) will be sadly blue ground of the former, and the white disappointed."

border of the latter. It is a very free-flowering variety, and without doubt is the finest hardy annual Ipomæa yet introduced.

12. Lindheimera Texana. - An annual, from Texas, growing one foot high, with bright yellow, star-shaped, ray flowers. It is a hardy annual, and flowers from June till frost, and well deserving of cultivation.

13. Lupinus Hartwegii calestinus.- A new and beautiful variety of L. Hartwegi, of branching habit, and long spikes of large delicate blue flowers, shaded with rose. Height, from one to two feet.

14. Enothera bistorta Veitichana. - A very ornamental and free blooming species, from Southern California, of easy cultivation, and trailing branching habit, small foliage, and flowers of a bright yellow, with a dark red spot at the base of each petal. It is a hardy annual, and should be sown in the open ground the first of May.

#### HORTICULTURAL NOTES.

Sweet Briar for Hedges.

A correspondent of the Prairie Farmer recom mends the sweetbriar as a hedge plant, that he has found capable of withstanding the winter.

Peach Crop at Cleveland. The Ohio Farmer reports the peach buds around Cleveland all safe as yet, and promising an abun-

dant crop.

Economize Soap Suds. Now is the time when all soap suds, house slops and all material of that kind should be used about the roots of currants, roses, raspberries, grape vines, and any other fruit trees for which they can

Sowing Seed. Recollect that nothing is gained by putting small seed into the ground before it is warm, and has had time to get mellow. Seeds will come up quicker and more satisfactorily to the planter, as a general rule, if sown fifteen days after the 14th of May, than if planted ten days before.

At an examination of various new varieties of beets grown in 1859, by a committee of the London Horticultural Society, Nutsing's Dwarf was pro-nounced the best for table use. It is described thus: "Leaves nine to twelve inches high, dark blood red; roots chiefly underground 9 and a half inces in circumference; flesh dark red, sweet, without the disagreeable earthy flavor of which many kinds of beet partake. Baked, the flesh is deep crimson, of smooth, close texture, remarkably sweet and well flavored." Short's Pine Apple was considered the next best.

Flower Cuttings.

A Jersey florist recommends brick dust as the best material in which to propogate cuttings of flowering plants. He says:

"My material is brick dust-the refuse of the kiln after burning—or what may be made by tak-ing soft bricks and pounding them up. Enough may be had at any brick yard for a mere trifle, to last a great while—but I think the fresher it is the better. For those plants more difficult to root, such as Daphenes, Heaths, Cape Jasmines, etc., I all shallow cutting pots entirely with brick dust, (except about an inch at the bottom, which is filled with coarse lumps of brick, to secure a good drainage). For plants that root more easily, I use half brick dust and half sandy loam. It is quite surprising how much more certainly and quickly cuttings of all sorts root in brick dust than in sand or in loamy soil, in the common way.

The Delaware Grape.

The Delaware Grape has been greatly praised and even extolled above other varieties, but the Rural American, noticing some of the remarks of Dr. Grant relative to it. savs:

"Our Delaware vines fruited last season, for the first time, and we could not distinguish that the grapes were any better than Dianas and Rebeccas, while the Concords, when fully ripe, were equal in flavor to either, and twice as targe, and yielded

double the crop."

The editor of the Germantown Telegraph also remarks: "While we may not be prepared to say that the Concord is equal to the Delaware, we are prepared fully to declare, that for general cultivation nine persons out of every ten will prefer the former."

A correspondent of the New Buffalo Independent who writes very intelligently on the subject, claims that the peach crop in Berrien county, and that section which is most favorable to their growth, is and more abundant. The time of flowering badly used up, and that at most there will be but small fraction of a full crop. He says:

"From examinations made in February and March last, I came to the conclusion that the peach crop was very seriously injured; but seeing repeated communications in the newspapers of the day, from many and different sections of State, north of, and more remote from the lake than this, that the peach buds were not injured in the least, but were in a healthy living condition prognosticating an abundant crop of this wholeome and delicious fruit, I was induced to make a re-examination, by which I find my previous opinion too truly verified. If my previous and subsequent examinations had not convinced me of their fallacy (in this section at least), I could have slept cozily, and feasted in anticipation, on the delusive dream of cream and peaches.

On the fourth or fifth of April, I made other examinations with the same result. On the sixth I examined three hundred and fifty peach buds, one hundred and fifteen of which were leaf buds, all in a living condition. The other two hundred and thirty-five were flower buds, out of which two only

were living.

If no disastrous event occur after this, we may have a few peaches—not more than 1-117th of our usual quantity, and perhaps not this. And I

#### About the Birds.

A writer in the Southern Planter discourses thus pleasantly on the subject of birds and

their doings: There is a class of bird killers-and not a small one-which we should not pass by unnoticed Grown-up men, who, having suffered prejudice to take the place of close investigation, ignorantly and recklessly destroy most useful birds. The killdeer-most faithful guardian of our turnip patchescharged with eating young turnips; the different kinds of wood-peckers—guardians of our trees—are murdered ruthlessly for making holes in ears of corn, in pursuit of worms, and for feeding their young on cherries. The sweetly-singing thrush is killed for pulling up corn, which the farmer might prevent by soaking, tarring and sulphuring his seed-corn. Ah, but the birds will still pull it up, if they do not eat it. Now, crows, etc., are industrious in gratifying appetite, but, like men, they soon become weary, when they find their work is for nothing. Another sweet songster, the cat-bird, is hated and killed for scolding when his persecutors go near his nest. I have, several times, dissected the gizzards of killdeers—they have no crops or craws-to show their destroyers that they contain no vegetable substance, and nothing indsed but the little bug so famous for destroying young turnips and tobacco plants .-These bugs can be kept out of plant-beds by a perfect fence, three feet high, without a crack. A neat log fence, well daubed with mud, will answer. I never could raise egg plants until I elevated boxes, in which the seed were sown, beyond their reach .-They can hop like fleas-crawl with difficulty -and if they ever fly, rarely do it, for, with close watching, I have never seen them perform the exploit. These little hopping beetles are a great nuisance in the land-and I fear are rapidly increasing. The killdeers seem to be their natural enemies, and formerly collected in vast numbers, and new in small ones-if even small ones convenient, may happen to exist-to fulfill the purpose of their mission I seldom, now-a-days, hear the cheery ring of the killdeer's voice. Let no man, henceforth, kill one, except to convince himself and others that they eat no young turnips. The sacrifice of one producing such conviction may save hundreds of his brothern. The wood-pecker tribe, I look upon as very valuable. The lively, spotted little fellow, who strikingly verties the adage about giving a dog a bad name, called sapsucker, has often been shot while picking grubs from the rind of some neglected apple-tree, which its owner should have saved by scrubbing the bark well with ley, because his unlucky name seemed to imply that he was sucking out its sap. His handsome compeer, the large, spotted woodpecker, much tinged with yellow,-called larkwoodpecker, and by the boys, yucker-is the only bird I ever saw picking out and eating tion of arsenic, and kill them by wholesale. the worms from the roots of peach trees .-Spare him, ye farmers, and teach your boys me, that he never could bring himself to to spare him! But where is the red-headed administer poison to any of God's creatures woodpecker-the guardian of the olden forests. His occupation's nearly gone. Civilization has almost banished them all, as it did the snow-birds, among the Alleghanies. We have cut down much the greater part of our the crow in the achievement of his thieveries, forest lands. We have ceased girdling trees, in the half-rotten parts of which these birds could peck out holes for their nests We even search out the old and dead trees for fuel. Where are the poor birds now? Like many of us, seeking homes-from dire necesnow. A solitary lingerer occasionally startles us with his merry squeal, but it excites number of bull-bats has very much declined in modern times. We thresh wheat so much earlier than formerly, that we can better dispense with the bats, as the summer-weavil, a favorite food with them, annoys us less .-Leather-winged bats-ignored by ornitholocists-should be prized by farmers. They live, I believe, entirely on insects, and in their descruction of them may substitute birds .-But prejudice will not spare even these poor, ugly little flutterers. They are accused of ously on all the grain near. breeding chinches. Such bugs may get into sycamore-hollows, and their other domicils. But would any man destroy his poultry be

for the good of agriculture, at which these

digressions are aimed. The Great Creator can, by storms and tempests-or, according to His own good pleasure-exterminate all, or any of His creatures. But He has so guarded animals preyed upon, against their marauders, by the law of action and reaction-in other words, of supply and demand-that the latter work against, weaken, or starve themselves, when they approach too near an extinction of the former. A community of cats, feeding only on one of rats, commit indirect suicide on themselves, when they carry on the destruc tion too rapidly, and must themselves decrease to that point at which the rats and their offspring can sustain them, Well-fed cats-which are much the most valuablemight succeed in effecting their destruction. Nature shields the birds, generally, in this way, from utter extinction. Even man would, probably, relinquish their pursuit, when it ceased to pay in profit or amusement.

probably never will be, whether—on the milk. whole-crows do most good or harm. I will not shirk it, though I confess ignorance and doubt. It seems as if it hardly need be settled, as in our region, in despite of some very keen crow-killers in my knowledge, their numbers, though confessedly prodigiously reduced, are far greater, in proportion to size, than those of any of our other birds. There are two or three animals which, some saynever die a natural death. I think the crow has as fair a title to this distinction as either of them. He has no destroyer but man, and among men there are so few who possess the genuine crow-killing talent, that, I think, with all his cunning in eluding pursuit, and his great prolificness, the danger of his extermination is not very great.

Some people protect crows as very valuable. The late John Randolph weuld not suffer one of them to be shot on his farm .-Indeed, he fed them liberally when his young corn could be injured by them. I tried this once, but they had not faith in me-the black rascals pulled up the corn close by the bait. Probably they prefer it soured or softened in the ground for their young. In that case, by soaking the feed in water a day or two, they might be accommodated. I suspect that even then, from a proclivity to mischief natural to them, they would continue the depredation, in conformity with the boast of the black-bird to the crow, in the old nursery

"Every since old Adam was made, To pull up corn has been our trade.

Some hate crows so much as to put food within their reach, impregnated with a solu-The gentleman mentioned above, declared to -not even to rats; that he left arsenic to the doctors, and doubted whether many of them used it to advantage.

There is an insolence and audacity about seeming to defy retribution and challenge assault. Could the warmest apologist for crows-on finding thirty or forty of the best melons in his patch pecked to pieces, while the saucy rogues were chuckling noisily over the feat in the neighboring t: ees, beyond the sity-far away. I have known a large com- reach of gunshot, however-look at the black est where one pine tree had been felled con- it is with a very bad grace, and, like all the venient to a field of thickly girdled trees in good done by scoundrels, with a bad motive. which they dwelt. They are nearly gone My rule has been, whilst I have by no means loved the crows, to let them alone, except such as took to stealing the eggs and catch rather sad associations. This is no longer a ing the young of my domestic fowls. I have home for them. What is called bat fowling, sought the lives of these most sedulously. I also causes great increase in insects. The would also contend for my melons, savagely, if need be.

As for black-birds, they may readily be cleared out, if they be considered a nuisance by draining swamps and extirpating willows. Even were they considered valuable, we should not retain the swamps and willows, with all their accompanying evils, for their sakes. Besides, I suspect that they eat but few insects except those peculiar to swamps, whilst at certain seasons they pillage voraci-

An intimation was made that remedies would be suggested, at least for the paliation of the foregoing evils. Here the writer feels cause chinches infest his hen-house. This himself much in the condition of a physician, they often do. Bats live, by hundreds, under who has great confidence that he could prethe barge-boards of my dwelling-house. I scribe sanative remedies, but has little hope know no residence, within ten miles, where that the patient will follow the prescription. mosquitos are scarcer-(and I may say chin- In the present case, there are too many to be

ches, too, if none will call it bragging)-al- consulted-nine-tenths of whom will proba- lbs. per cwt., or thereabouts, is added to the though there is a curved riv r-boundary, of bly pronounce the whole business a humbug; more than two miles, within half a mile of the and of the very few who may approve, hardbe overcome.

#### English Cheese Making.

The following is the method described as that practised at one of the large cheese dairies of Somersetshire, England, in making the celebrated Cheddar cheese:

"Cheddar cheese-making differs from that the curd; which is done by heating a portion of the whey, and letting the curd remain in The following description of the dairy mafagement of Mr. Harding, at Compton Danvisited the farm in 1854. The milk is poured from the pails through a sieve into a receiver the wall to the cheese-tub or to the coolers. A canvas bag is also placed over the inside end of the pipe, so that a double precaution The question has not been settled, and is used against impurities entering with the

The rennet is prepared much in the way that it is done in many Ayrshire dairies-Mrs. Harding steeps five vells at once, and this usually suffices for two weeks, in which time about 21 cwt. of cheese may be made. The vells appear to have been carefully cleaned and preserved.

Immediately after the morning milking, the evening and morning milk are put together into the tub. The temperature of the whole is brought to 80 deg. by heating a small quantity of the evening milk. In spring and towards winter a small quantity of annatto is used to improve the color of the cheese. It is put into the milk along with the rennet at seven o'clock. After the rennet is added, an hour is requisite for coagulation. At eight o'clock the curd is partially broken and allowed to subside a few minutes, in order that a small quantity of whey may be drawn off to be heated. This whey is put into a tin vessel and placed in a boiler in an adjoin ing apartment, to be heated in hot water. The curd is then most carefully and minutely broken, and then as much of the heated whey is mixed with it as suffices to raise it to 80 deg.—the temperature at which the rennet is added. Nothing more is done to it for an-

A little after nine o'clock a few pailfuls of whey are drawn off and heated to a higher temperature than at eight o'clock. The enrd is then broken as minutely as before, and after this is carefully done, an assistant pours several pailfuls of the heated whey into the mass. During the pouring-in of the whey the stirring with the breakers is actively continued in order to mix the whole regularly, and not to allow any portion of the curd to become overheated. The temperature at this time is raised to 100 deg., as ascertained by the thermometer, and the stirring is continued a considerable time, until the minutely broken pieces of curd acquire a certain degree of consistency. The curd is then left half an hour to subside.

At the expiry of the half hour the curd has settled to the bottom of the tub. Drawing off the whey is the next operation. The greater portion is lifted in a large thin bowl, and poured through a hair sieve into the adjoining coolers. As it runs into the leads it appears to be very pure. When the whey in spite of her being well-bred, powerful, munity of them actually to arrest the progress thieves, without wishing them all dead? If, above the mass of curd is thus removed, a of destruction, from the pine-borer, in a for- on the whole, they do more good than harm, spigot is turned at the bottom of the tub, and spigot is turned at the bottom of the tub, and the remainder is allowed to drain off, which it the more remarkable was that she belonged does very rapidly without any pressure being required. To facilitate this part of the work the tub is made with a convex bottom, and the curd is cut from the sides of the tub and placed on the elevated centre. It is carefully heaped up, and then left for an hour with no other pressure than its own weight. After this interval it is cut across in large slices turned over once on the centre of the tub, and left in a heap as before for half an hour. The whey drips away towards the side of the tube, and runs off at the spigot; and no pressure being applied, it continues to come away comparatively pure. After undergoing these easy manipulations, and lying untouched during the intervals that have been mentioned, the curd is ripe for the application of pressure. But great care is taken not to put it into the vat to be pressed at too high a temperature. If the heat be above 60 deg., and it usually is higher at this time, the curd is broken a little by the hand and thrown upon a lead cooler, until it is brought down to the desired temperature.

The after-management of the cheese re

crumbled curd, and it is mingled and broken by the curd mill. The cheese vats are placed house. Pardon this and several other digres ly one will adopt and endeavor to carry out under the machine, and are piled one above sions. The whole article is written, mainly, the suggestions. Such are the difficulties to the other as the curd falls down. A cloth is put over each vat when the breaking is over the curd is reversed in the cloth, put back into the vat, covered up, and placed in the press for about three quarters of an hour. After this the cheese is taken out, and a cloth wrung out of warm water is put on it. It is again changed at two and at six o'clock, after which dry cloths are put on it. Care is taken already described, chiefly in the scalding of that the cheese fills the vat properly. To azcomplish this, the vats, at making up, are filled rather full, and the edges of the cheese it for a considerable time, at a temperature are pared in the afternoon. Next morning even above the natural heat of the milk. the cheese is rubbed on both sides with salt, and the same cloth is put on again. On the third morning it is treated in a similar mando, Somersetshire, is given by the deputation ner. The cheese is put into the vat without from the Ayrshire Agricultural Society, who a cloth on the fourth morning, and a littlesalt is rubbed over it to keep it from adher ing to the wood. After the fourth morning it outside, from which a pipe conveys it through is reversed in the vat, without a cloth, each morning, until the process is complete, about the sixth or seventh morning.

#### Treatment of Young Mares.

Willoughby Wood, a writer on horses much esteemed, thus gives his opinion in the London Field on the question as to whether young mares are injured for fast work by having colts at an early age:

I have no doubt that the powers of a mare are seriously impaired for fast work after she because a filly, which has been well kept up of brick to close the end of the tile. to three years old, does not usually grow much after that period. It may not greatly detract from their appearance, although it must tend, in a certain degree, to increase that very usual defect of mares, the disprowith the power of their legs. But the very fact that it lowers their price in the market is pediency of the practice. I imagine that from mistaken views of economy, or only apply it to such mares as they propose to retain for moderate work about home. Without entering at length into the physiology of the subject, it appears to me that one consideration suffices to condemn the practice. The whole art of training a horse for a race, or preparing him for the hunting field or other fast work, consists in bracing his muscular system, and discarding from the frame a l superfluous matter. In the breeding animal the very reverse of this is required; our preparation must then be made for that total relaxation of the system which is requisite for the birth of the young animal. When it is considered, moreover, that this state of relaxation is continued for six months longer, or until the foal is weaned, it must be evident that the system can scarcely be expected ever fully to recover its tone after prostration so severe and relaxation so protracted. The case of heifers and ewes feeding well under similar circumstances, to which my correspondent alludes in another part of his letter, is not a parallel one. In these latitudes we do not require our horses to lay on flesh, but to work. That exceptions may occur to the rule that breeding unfits a mare for fast work I do not doubt; but it is never safe to take exceptions for a guide.

As far as my experience goes, its result is quite in accordance with theory. I once had with a handsome figure and fine action, she to a family celebrated for their excellence in this respect. She had no unsoundness, she was a fine goer for a short distance, but was useless in a run, although no fault could be detected in her wind. She appeared utterly detected in her wind. to flag after an amount of work which to an ordinary hunter would only have been exercise. She was a hearty feeder, and was capable of standing a good deal of slow work, as, for instance, in harness.

er, in short, that to breed from a growing filly is to run the hazard of unfitting her for fast work.

Increase of Cattle.

John Johnston of Geneva on the 3d of December put up three pair of steers to feed, and on the 7th of April weighed them with the following result. 1st pair of steers on the 3d of Dec. weighed 2785 pounds and gained 435 pounds; 2d pair weighed 3060 pounds, gained 585 pounds; 3d pair weighed pounds, gailed 585 pounds; 3d pair weighed 2030 pounds and gained 280 pounds. It will be noticed that the smaller the steers when originally put up the less they gained, and this is intended to exemplify what Mr. J. armore beef out of gues, that large steers make same amount of food than small ones: but he has not proved that his steers did consume the same amount of food. They were fed the same weight of meal, but no account sembles that of Cheshire. A little salt, 11 was taken of the hay fed to them.

#### Laying Drain Tiles.

The question is often asked, where is the proper place to commence laying tiles in drains. I think the only proper place to commence laying tiles is near the lower end of the main drain. Construct the outer end of stones, that it may be durable against frost. Commence by imbedding flat stones for the bottom, three or four feet in length; set flat stones edgewise in the form of the letter V, inverted; then join on with tiles, selecting the ends which will match each other, having the ditch sufficiently wide at the bottom that the end of the tile in hand can be varied a little, right or left, so as to make close joints. On arriving at the points intended for side-drains, insert a tile at right angle with the main drain, as described in Co. Gent., present vol. p. 77, making a joint for connection; put a piece of brick at the outer end of the tile to prevent its being filled with earth; drive a stake in the ground directly over the end of the tile, that it may be found when digging the side drain. Use broken straw or stubble for covering the tiles; scatter it in while standing on the edge of the drain, and even it, and press it down with a pitchfork. In filing in the earth, shovel off from the end of the pile, standing between it and the drain and working backwards-which is much easier than shoveling against the end of the pile. When digging the side-drain, leave a section of earth at top where the stake is near the main drain, and dig under to find the connecting tile, and in putting in the tiles join to the connecting tile; and on arriving has had a foal. It may not stop her growth, at the upper end of the side-drain, put a piece

I think the above method preferable to that recommended by Mr. Johnston, which is to commence laving tiles in the upper end of the side drain, and finish it before putting tiles in the main drain-although the main portionate weight of their carcase compared drain is to be dug first. See Co. Gent., 1859, vol. 14, p. 299. The object is said to be to prevent the formation of sediment in the in itself a strong presumption against the exso that it may pass out, and not through the those breeders who resort to it do so either tiles of the main drain, lest it should be obstructed in its passage and choke the drain; which I think is an unlikely contingency. If drains are mechanically constructed, whether made of tiles or stones, and a straw covering put over the tiles before filling in the earth, for a filter, just as our grandmothers used to put straw in the bottom of the leach, that the ley might be clear, then, whatever earth might settle in, would be carried out by the surrent of the water.

By commencing at the lower end of the drain, in laying tiles, the inclination of the drain will help to close them together; and by finishing the main drain before the lateral drains are commenced, the earth does not accumulate on the surface at the intersections of the drains so as to be in the way of the perator; also by commencing to lay tiles at the lower end of a side drain instead of at the upper end, it is unnecessary to cut a tile -always a difficult thing to do successfullyas it matters not, at the upper end, whether the tiling comes out half a length longer or shorter than was originally designed.

The leaving the earth thrown out upon the side of the main drain for an indefinite period, waiting for rain to settle the earth and wash the side drain tiles, is rather slipshod; where-as, when filled in the same day it is dug out, it is not more than two-thirds the labor as when delayed one week .- Amos Fish in Country Gentleman.

Eleven Years of Corn in Illinois.

G. W. Smith of Rockford, Illinois, gives his experience with corn for eleven years and its cost, as follows:

the double shovel plow in cultivating, and sometimes the hand hoe. Works his corn four times, keeping it clear of weeds and foul stuff. Regards Yellow Dent as the best va-riety. Plants four feet each way, and four grains in a hill. Selects seed corn before the first frost, and preserves it in a dry place.-Selects the ripest ears; prepares his seed by washing in brine; the bad seed rises to the top. The following is Mr. Smith's statement of the corn raised by him since 1848:

1849 Planted on spring wheat stub. plowed in spring, 50
1850 Planted on spring wheat stub. plowed in spring, 40
1851 Planted on oat stubble plowed in spring, 40
1851 Planted on oat stubble plowed in spring, 40
1852 Winter wheat ground plowed in spring, 50
1853 Winter wheat ground plowed in spring, fallowed the year previous, and clean. 60
1854 Winter wheat stubble well fallowed. 60
1855 Winter wheat ground, well fallowed, bad season, 40
1856 Fall plowing, seed falled. 35
1851 Fall plowing, bad planting. 40
1859 Winter wheat stubble, wet season. 40
1859 Winter wheat stubble, dry season. 40
1859 Byring wheat stubble, dry season. 40
Average yield for eleven years. 44
He gives the following as the cost of He gives the following as the cost of raising an acre of corn:

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#### NEW ADVERTISEMENTS.

M. SHOEMAKER, Jackson.... Durham Bull for sale.
H. R. THOMFSON, Hartford, O., Assignee's sale of Stock. M. S., D., M. & T. RAILEGAD, New Time Table.

FARM FOR SALE .- The owner of a magnificent farm of 210 acres, located in Macomb county, a few miles from Rochester, in this State, is desirous of selling it. The farm itself has a fine large dwelling, horse barns, large barn sheds, carriage house, piggery, orchard, and garden. It is all cleared but about 20 acres, which is in wood; is well fenced, and under first rate cultivation,— With the farm will be sold the stock and implements which are all in good order, and comprise cattle, sheep and horses, together with the wagons, &c. used upon such an estate. The terms will be made easy. For further particulars apply to R. F. JOHNSTONE. Editor of the Michigan Farmer.

# MICHIGAN FARMER

#### R. F. JOHNSTONE, EDITOR.

### SATURDAY, APRIL 28, 1860.

Editorial Miscellany

A trial of plows, harrows and cultivators is to be held at Capt. Gardner's farm, in Northville, on Saturday, May 5th, to test the work of Bucklin's improved harrow.

To those who want a first rate farm, with all the appurtenances, buildings, orchard, fences, and a soil as rich as any in Michigan, together with a good stock of cattle, sheep and horses, and all the implements, we commend the notice at the head of this column.

Buffalo, offers Mowers and Reapers on the improved Ketchum principle at rates very low. In his advertisement last week, a misprint made it appear that he offered a four horse machine for sale when it should have been a two Lorse

A meeting was held last week at St. Joseph in Berrien County, to take measures to form an agricultural society for the northern towns in that county. A committee has been appointed to make inquiries as to what is to report on the 28th instant.

The Annual Fair of the State Society of Illinois is to be held at Jacksonville, and will begin on the 10th of September, and close on the 15th. Amongst the premiums to be offered is one of one thousand dollars for the best steam plow. This ought to call out results of the inventive genius of the year.

We publish the report of Professor Winchell, the State Geologist, on the salt wells at Saginaw. This report is highly in teresting and of use to those who are giving attention to the mineral resources of which Michigan is possessed. Nothing can better illustrate the utility of the early publication of such reports than the fact that Mr. L. H. Parsons, of Corunna, has already deduced, that the salt strata may be reached in some portions of Shiawassee with nearly 200 feet less boring than has been found necessary at Saginaw.

Read what a useful series of experiments the Farmers' Club of Plymouth have instituted relative to the cultivation of the potato. There is no reason why other parthe same series of experiments in different parts of the State, and on soils that differ from those in Wayne County. There is certainly much to be learned relative to this very are in full blast, with sufficient power unoc ficit is caused by the method of cultivation have counted thirty men and young Americas or the want of method, by the seed, or by engaged in the sport at a time. If you wish other causes, does not seem very well determined. This attempt of the Plymouth club Lyons, Ionia county, Mich., and call on is a move in the right direction, and we hope to hear of more such movements.

By a letter received from A. C. Fisk of Coldwater, we learn that "Warfield," of which he gave a burlesque description in a letter which we published as the advertisement of a Jack, in last week's issue, does not belong to the long eared tribe, and that the writer has not gone into the mule breeding business. On the contrary "Warfield" is a very fine two-year-old thoroughbred purchased from R. A. Alexander, of Kentucky, bred from imported Sovereign, and out of Isola by Bertrand, by Sir Archy. The full pedigree of this horse has been received and will be published next week. Mr. Fisk has gone to the very best source to procure the highest bred horse for the improvement of stock that he what is wanted to improve the stock of this much rejoiced in the prospect."

State. He knows the deficiencies under which much of our stock labors for want of size, style and action combined, and he is well aware that this is only to be remedied by trying to infuse more of the properly selected thoroughbred into the mares from which stock is to be raised. He knows well that where the mares possess size, they are generally coarse, and lack in both style and action, and where they possess action, they are as a general rule inclined to be diminutive -The introduction of such horses as Warfeld. considered in this view, alone, may be considered a very great public benefit and we hope the efforts of the owner may be duly apprecia-

The managers of the Baltimore and Ohio Railroad have paid a very liberal compliment to the Western press and its conductors, by sending to the editorial fraternity an invitation to visit Baltimore, Washington, and Mt. Vernon, at any time between the fifteenth of April and the fifteenth of June, but more especially to join in the excursion for which a special train is to be provided to start from Wheeling on the 4th of May. To render this excursion still more complimentary, at the inern railroad companies have joined in aiding the Baltimore and Ohio Railroad officers to carry out the design, and have likewise granted to the recipients of the invitation tickets the privilege of passing over their roads free at any time during the period specified .-Amongst these roads we note that R. N. RICE, It will be seen that R. L. Howard, of Esq., of the Michigan Central, with the usual courtesy to the press which has always distinguished him, has connected that road with the Baltimore and Ohio for the occasion. The Baltimore and Ohio Railroad passes through the States of Virginia, and Maryland, and across the Alleghanies, and probably the most picturesque region in the United States, and as the visit to Washington and Mt. Vernon will, of itself, be an oasis in the life of many of the members of the press, we have no doubt the opportunity will be seized upon as a happy chance not only to see much towns will second the movement, and which of the other States, but also of becoming personally acquainted with many of their professional brethren, and of enjoying togeth er the sights and scenes to be found at Washingtion and Washington's home.

#### The Wheat Prospects in Ionia.

A correspondent from Lyons writes to us as follows:

The wheat has come through the winter looking finely in the Valley, and should there be no mishap there will be a large crop of the finest quality of wheat produced in the Grand River country, as this part of the State has a reputation of producing a very superior quality of wheat. There has been a large crop of maple sugar of excellent quality already harvested, the warm, dry weather of March being a real Godsend to the sugar ma kers, as they were not compelled to boil down rainwater, or wade through mud. The early spring makes feed of all kinds plenty at reluced rates. Corn that was selling in January at 75 cents can now be purchased for 50 cents; other things in proportion. It is claimed by some of the weather and season prophets that this is to be a season of great abunties may not also unite with them, and try dance in these parts. May their prognostications be correct for once.

We have a very fine water power now completed at this place, and our mills upon it common esculent. In the first place, the cupied for 30 run of stone. The dam that maximum of production is hardly settled yet was put across the run at this point last fall maximum of production is hardly settled yet. No one can say how many potatoes he can raise per acre. The amount varies from fifty bushels to five hundred. All concede that crops of this plant are light, compared to the com what they ought to be, but whether the de- ken from the river daily for a month past. I to breakfast on the finest pickerel, come to

#### The Wheat Crop.

The Western Chronicle states that the wheat crop never looked better than it now does in St. Joseph county. It promises a very full crop.

The Owosso American says the wheat in Shiawassee county, we are glad to hear from all observers, has wintered most excellently, and its present appearance is unusually pro mising.

A correspondent of the Ann Arbor News writes-" On leaving home last Thursday, by the Central Road, for the West, I was much surprised to see the beauty of the wheat. In only one or two fields between our city and Michigan City did I observe any to have been could find, and having been for many years in killed by freezing out or by water standing the business of breading horses, there are few upon it. I never saw the wheat look so finely that ought to be better posted in regard to as this spring, and the people seem to be such declaration. After the declaration, there

Political Notes of the Week.

-During the week we have had so far nothing but rumors, reports, telegraphic flashes of remarkable smiles, bows, winks and portentous nods from those who figure in the great convention at Charleston. Oh Monday that body met, and commenced operations by a difference of opinion over the merits of the delegates claiming to represent New York and Illinois; the New York disputants being headed by Fernando Wood, and the Illinois men by Ike Cook. The attempt of their friends to procure them entrance, however, only resulted in showing that these parties had but a small mitheir favor, 44 votes to 259 being all they could muster on two test trials. The convention contains 606 members, but has only 308 votes each State being represented by twice the number of its members and Senators in Congress; the States giving their votes by the proportion of that representation. Michigan has six votes. W. R. Flournoy of Arkansas was nominated for temporary chairman by the chairman of the national committee, and Wm. F. Ritchie of Virginia, Sec retary. The convention on Tuesday elected Caleb Cushing of Massachusetts, President of the con vention, with a vice-president and secretary from each of the States, and adopted a rule that unless instructed otherwise by the State conventions that nominated them, each delegate should have the right to report his individual vote as he pleased vote on this point was considered as indica stance of the managers, nearly all the west- ting a favorable result for the friends of Mr. Doug las. There was apparently, judging from the reports, considerable unanimity in these preliminary proceedings. On Wednesday the convention agreed to admit from Illinois the delegates in fa vor of Mr. Douglas, and had come to the conclu sion to admit the delegation from New York headed by Dean Richmond, which in fact excluded the Wood delegation. The committee on a plat form had also, by a majority of one, decided to re-adopt the Cincinnati platform as that which should be elected as the exposition of the principles of the party. The chairman of the Vermont delegation died of apoplexy during the day. A rule was adopted limiting debate on all questions except the platform to fifteen minutes for each speaker, and one hour to each speaker on the dis cussion of the platform. It is evident from the brief telegraph dispatches that there has been warm speaking, but at the same time nothing that may be considered important, indicating a want of cordiality amongst the members. Up to this date it is impossible for even the most enthusiastic friend of any candidate to say who will be the nominee, though we should decide that the chances are altogether in favor of Mr. Douglas: but the platform seems as yet to point out a rock which may make or mar the chances of any can didate. The convention had not on Thursday made any

step towards the nominations, and from the dis patches received up to now, it does not seem like ly that the business of nominations will be go through with during this week. There are all kinds of propositions on the subject of the plat-form, and all kinds of reports; but it is very evident that a platform will have to be made before any nomination will be attempted, and then it is impossible to say how many ballots may be necessary before a conclusion is arrived at. As for the nominations themselves, about which nothing has yet been done officially by the convention, it is very uncertain who will be nominated. For the first two days the friends of Mr. Douglas interpreted every movement as tending to advance his in-terests, but this tone has been somewhat checked, and it is easy to be seen that they are not by any means so confident that the adoption of his name is a fixed fact. At the same time there is as little to be said for any other name. D. S. Dickinson of New York, seems to be stronger at the present moment than he was when the convention opened. The reports indicates great excitement on the the members from Southern States and a determination that the platform shall contain a distinct acknowledgement of the duty of Congress to protect negro slavery wherever it may appear with in the jurisdiction of the United States. of course is not looked upon as wise policy, by the delegates from the free States, and how long the struggle may last is not known, but it will not be considered very wise by the leaders of the party to protract it,

-All sorts of rumors are of course prevalent as to the nominations to be made at Chicago, and we give the following from the Chicago Democrat for what it is worth:

coln are s Lean or Bates. Gov. Banks is also a warm friend of Mr. Lincoln."

For our own part we think there can be little question that Mr. Seward will get the nomi nation as the candidate of the republicans, and as little that it will be decidedly a most politic move to place a man like Mr. Lincoln, from the great northwest, on the ticket. Had Illinois been favored at the convention of 1856, there is no saying low who would have been president for that term. All movements of the political eunnehs at Wash ington are to be regarded as dictated more by cow ardly fear than any regard for principle.

-In Congress there has hardly been a quorum for the week, and so far as we note the members have confined themselves to the delivery of political speeches. No business of importance has been done or is likely to be done before the 1st of June The Hon, Mr. Chandler, Senator from this State as made a visit northwards and is at present in Detroit, Still we note that 180 members are present in Washington. The most remarkable pro peeding during the week has been the delivery of a speech by Mr. Corwin of Ohio, which of course made every one who listened to it good natured.

-The law in this State makes it necessary that all those residents of foreign birth who desire to vote at the Presidential election shall declare their intentions six months previous to that event, and we note that preparations are already being made to secure that all such persons shall make will be a good time among the working politi- or under the Paraguay treaty.

cians, watching these new made citizens, that they undergo turns of political regeneration.

-The correspondence of Ex Governor Robert J. Walker with President Buchanan is being published, having been elicited by the questions of the Covode committee; it is creating considerable excitement, and there has been a report that the Ex-Governor had sent a challenge to Attorney General Black, which the latter very properly de

-It is proposed that the United States shall buy out the Mormons. Should this mode of getting rid of them be adopted, it is altogether probable that the Mormons would take up their residence in one of the northern Mexican provinces, or perhaps fillibuster in Nicaragua.

-The reception and care of the Japan Embassy has been put in charge of Captain Dupont of the Navy, at Washington. The Japanese are to be received at New York first, and proceed thence to Washington.

-Governor Wise of Virginia has sent a letter o the Charleston convention withdrawing his name as a candidate for the nomination.

-A convention to form a provisional governnent for Arizona has been held in that territory. L. S. Owings of Mesilla was selected for Governo -It is said that Miramon has sent a very bitter letter to General Cass relative to the capture of

-A bill has been introduced into the Assembly of Alabama for transporting all negroes guilty of capital offences to Massachusetts.

-Nothing has yet been done relative to the disposal of the two captured steamers.

#### General News.

—A company of about forty persons from Macomland other counties started for Pike's Peak last week. —The Governor of New York does not approve of the bill for the erection of a new City Hall in New York. -Navigation was declared open between Detroit and

st Monday. -Two horses have been attacked with hydrophobia near the city of Detroit on the Fort Gratiot Road -Judge Young, formerly Commissioner of Patents

-The Hon. B. V. French of Braintree, long known as

noted agriculturist, died of dropsy last week. -A piece of road in Concord, Massachusetta which

en in use for five years, lately sunk out of sight. -Three inches of snow fell at Oswego, N. Y., on the 25th inst.

-One hundred and fifty buildings were destroyed by fire in Woodstock, in New Brunswick.

—The newspaper express train on the Hudson River Railroad is reported to have run seven miles in six

—A man named George Mizner has been sentenced to labor for life for an atrocious outrage on a girl near -It is estimated that there are 7,500 Indians in Michi-

an. They belong to five different tribes, and speak as many distinct languages. -The bids for carrying the mails in the Middle States

-A deputy United States Marshall was shot at Topeka eavoring to arrest a citizen named Ritchie on

charge of robbing the post office. -The Duchess of Leeds, one of the grand-daughters

of James Carroll of Carrollton, has subscribed one thou-sand pounds sterling to aid the Pope. -In a quarter race at Owesso, the mare Fanny Booker beat her opponent, known as the Brown horse, winning

-The oil wells in Pennsylvania are increasing in richness. A well known as the Crosby, yields 2,475 lons daily.

-The Ann Arbor Local News says that coarse grains clover seed, potatoes, butter and egg known to be for ten years in that city.

-L. H. Parsons suggests that salt borings may be nade in Shiawassee county that will afford brine at nearly 200 feet less depth than the wells at Saginaw.

-A run was stated to have been made on the branch office at Toledo of the Tecumseh Bank, which has caused the bills to be refused by the brokers in other places -The New York canal board is about to institute suit against the New York Central Railroad for the co ection of canal tolls, claiming that the law ab

them was unconstitutional. -The Arctic expedition of Dr. Hayes in search of the Polar Sea, is attracting attention in England, and should it not start, it is thought one will be fitted out in that

-The work of completing the Great Eastern is being oushed forward with considerable vigor, and it is sup-osed she will be ready to cross the Atlantic by the end

-The prize fighter Heenan was arrested in Notting amshire and held to light bail. Warrants were issued for Sayers, but the local magistrate to whom the offic went would not permit them to be served.

-At the annual election of the Michigan Southern R. R. Company, Elisha M. Gilbert of Utica, N. Y., was elected President, Geo. Bliss retiring. The Hon. John est on the Board of Directors.

-The President of the State Military Board has is sued a call for a convention of the board to meet at the Russell House in Detroit, on the 14th of May, to make arrangements for the year's encampments, inspection

-The large railread passage boat constructed for the purpose of being propelled across the St. Clair river at Port Huron, by the force of the current, has proved a failure. The current don't operate on any such heavy -The news from the California mines seems encour

aging. Late advices say, "Mining operations are retar-ded by the weather. Had the season been favorable, not less than 15,000 persons would be at work in the Washoe mines, but as it is there are only about 8,000.— The mining prospects are encouraging. The original lead increases in richness as it continues to be opened, and new ones of determined value are being discovered every few days. The probabilities are that we shall have on the eastern slope before th first of January next."

-The postage between the United States and the German and Austrian postal union is now uniform at 15 ets. on a half ounce letter, prepayment optional.

-A very destructive fire occurred at Grand Rapid on the night of the 15th. The burnt district comprise early an acre, many of the losers are insured.

—A fire has also swept off a large portion of the bu-siness district of St. Johns, destroying the printing office and a number of stores and dwellings.

—The Marshal has appointed his assistants to take the ensus in Detroit and Wayne county. John H. Har non is one of them.

-John A. Dix has been offered the post of commissi

DURHAM BULL FOR SALE. WILL SELL my thoroughbred Durham Bull

as I have used him with my own herd so long as I can do so without breeding too close. Those destring to purchase are requested to call and see him and his stock, which I have, from calves to four years old, and which will equal anything in the State. I will sell this Bull very low for cash or approved paper, at six months.

Pedigree of Prince Edward. Pedigree of Prince Edward.

See American Herd Book, Vol. 2, p. 265. Red and white, bred by Ambrose Stevens, sold by him to Edward Belknap, and now the property of M. Shoemaker, of Jackson, Michigan. Calved 1852; got by Wolviston, (1109,) out of Princess 1st, by Napler (6298); Rose Ann, up Bellerophon (3119); Rosette, by Belvidere (1706); Red Rose, by Waterloo (2516); Moss Rose, by Baron (58, Angelina, by Phenomenon (491); Ann Boleyn, by Favorite (259); Bright Eyes (bred by Alexander Hall), by Hubback (319); Bright Eyes, by Snowden's Bull (612); Beauty, by Masterman's Bull (422); Dutchess of Athol, by Harrison's Bull (292); Tripes, (bred by C. Pickering) by the Stad's Bull (292); bred by Mr. Stevenson of Ketton, in 1789.

Jackson, March 12, 1860.

Jackson, March 12, 1860.

# ASSIGNEE'S SALE OF

SHORTHORNS, &C.
THE ENTIRE STOCK of SETH A. BUSHNELL, Shorthorn Cattle, Jacks and Jennets, South-

down Sheep, and Chester White Pigs, must be closed out during the coming summer.

A portion of the Cows and Heifers, and the entire stock of sixteen Bulls, (with the exception of Fancy Boy.) will be sold at PUBLIC AUCTION, to the highest bidder, on

der, on Thursday, the 31st day of May next, at the residence of the said Bushnell in Hartford, Trumbull county, O. At the head of this stock, and to be sold with the rest, stands the famous

PHIZE BULL HUBBACK.

The balance of the stock will be held subject to private sale at any time. Terms of sale, seven months credit with approved security, or six per cent off for cash.

HOMER B. THOMPSON,
Assignee of Seth A. Bushnell.

Hartford, O., April 21, 1860.

ATTENTION FARMERS!

# From the Unparalleled Success of the

KETCHUM MACHINE

the past season, I am induced to build for the harves of 1860 A Larger Number than Usual, And I offer them as the MOST PERFECT MACHINE I have ever manufactured, and at prices to virespond

HOWARD'S NEW TWO HORSE MOWER, all iron—light draft—no side draft—no driving fast to have them work well—no clogging. Price only \$100 in Buffalo.

HOWARD'S NEW ONE HORSE MOWER f easy draft, for one horse and capable of cutting six sight acres of any kind of grass per day. Price \$75 3uffalo.

OOD FRAME, TWO HORSE MOWER; price \$80 COMBINED MOWER AND REAPER,

(tron) with late improvements—took first premium at the UNITED STATES FAIR at Chicago last fall. Price \$180

All the above machines have Emery's Adjustable ver and Eoller, and several other improvements, and end for a pamphlet. Address R. L. HOWARD, 16.9t Buffalo, N. Y.

#### NANSEMOND SWEET POTATOES.

THE undersigned being permanently located and en-aged in the cultivation of the Lebanon Yellow, or Nansemond variety of Sweet Potatoes, offers Plants to the public at the following LOW PRICES: 1,000 for \$2.00, 10,000 for \$15.00.

Plants boxed so as to keep good for one to two weeks.
Send in your orders in time. Plants ready by May 1.
Address F. Sester's Crossings, O.
P. S. All Plants sent by express unless otherwise ordered.

ordered.

These plants can be obtained and are for sale at
PENFIELD'S Implement and Seed Store, Detroit.

April 9, 1860.

Reaping and Mowing Machines. JOHN REILLY ..... WM. N. BILIOTT

#### REILLY & ELLIOTT, MANUFACTURERS O

#### REILLY'S BADGER STATE Reaping & Mowing Machine.

JOHN REILLY, PATENTEE.

They also manufacture Steam Engines, Mill Gearing, Plows, and all kinds of Castings. WHITE PIGEON, MICHIGAN.

THIS BEAPER AND MOWER took the First Pre-mium at the United States Fair in Chicago last Fall; also, at the Wisconsin State Fair in Milwaukee. White Pigeon, St. Joseph co., Mich., April 9, 1860.

# TREES, SHRUBS AND PLANTS.

W.M. ADAIR invites the attention of Planters to his stock of trees, &c., which is unusually fine the present season, viz:
Apples, Pears and Cherries, both Standard and Dwarf; Plums, Peaches, Apricots, Grapes, Raspberries, Strawberries, &c., in great variety.
Now Rochelle Blackberry (Lawton), \$1 per doz., \$6 per 100, strong bearing plants.
Wilson's Albany Strawberry, Hooker's Seedling, Jenny Lind, McAvey's Superior, Longworth's Prolific, and many others, at reduced rates.
Seeds of true Hubbbard Squash, 40 seeds for 12 ceuts in stamps.

Seeds of true Hubbbard Squash, 40 seeds for 12 cents in stamps.

Raspberries—Brinkle's Orange, Allen's, Fastolf, Antwerp, Belie de Fontenay, and others.

Currants—all the best, both old and new—Cherry.
Red and White Dutch, White and Red Grape, Versaliaise, Glorie des Fablons, &c.

Grape Vines—Isabellas, Catawba, Concord, Delaware, Rebecca, Hartford Prolific, Union Village, Logan, Canadian Chief, Marion, Diana, Anna, &c., together with a very large stock of Foreign vines for cultivation under glass.

ass.

Ornamental Trees and Shrubs, in great variety.—
articular attention is called to our extensive collection
Roses, Dahlias and Verbenss, embracing the best in

of Moses, Danies and Vertense, various of the cases have cultivation. In addition to the large stock on hand, nine cases have just been received from France per Steamer Australian, with many of the noveltles of Europe, WM. ADAIR, Detroit, Mich.

#### TOLEDO WHOLESALE NURSERIES.

A. FAHNESTOCK & SONS,

OFFER to the trade generally and to all persons wishing to purchase in large or small quantities, at the lowest rates per dozen, hundred or thousand.
Our stock comprises, Apples, Pears, dwarf and stan'd, Plums, Cherries, dw'f and st'd, Peaches, Apricots, Neotarines, &c., as well as Lawton Blackberries, Strawberries, Raspberries, Gooseberries, Grape vines, Currants, &c.

do,

Taking transportation and season into consideration, we sell lower than almost any eastern nursery. Our stock of Ornamental Trees, Evergreens, Shrubbery and Greenhouse plants is the largest west of Rochester, N.Y.

Orders solicited.

A. FAHNESTOCK & SONS,

Toledo, Ohio.

Send stamp and get a catalogue.

# The Kousehold.

"She looketh well to the ways of her household, and eatsth not the bread of idleness."—Proverss.

EDITED BY MRS. L. B. ADAMS.

#### RUFFLES.

BY RUSTIO NELL.

Oh the ruffles! Oh the ruffles! There's nothing now for us ladies to de
But to ruffle ourselves from bonnet to shoe,
A ruffle here and a ruffle there,
For only ruffles are fit to wear. Now finished, alas, is embroidery's reign, The skirts that were wrought with such trouble and

Must now be remodeled and wrought again, With tapes and ruffles a lengthy chain, Till they're all a mass of ruffles!

Oh the ruffles, they're troublesome all ! The ruffled pillows, the ruffled sheets, The ruffled cushions, the ruffled seats, The rufflet skirts, and shirts and thing The caps and gowns, and night-cap strings, The ruffled tempers, and ruffled hearts, So sorely ruffled by Cupid's darts, God save us all from these ruffling arts; For we're ruffled in pieces and ruffled in parts Till our brows and noses are ruffled!

Oh the ruffles, the sinful ruffles! The preacher says that the church will fall, And he rouses us all with a stirring call, To come up and work for the love of souls, And teach the heathen who dwell at the poles How 'tis wicked to feed on the oil of seals, While christian people eat cod and eels!
Now coaxes and scolds and praises and blames, And calls on the damsels and also the dames To leave their pride and their ruffles!

Oh the ruffles, the blinding ruffles! Here's Mistress This, and Madame That, With the musical tones of a strangling cat, Preaching of woman's fearful wrongs, How she's bound to the dishcloth, the broom and

tongs, Her genius so fettered in wing and tail Can never fly till a coat of mail Shall take the place of filmsy wings! But alas the mass of foolish things Care only for loves of ruffles!

Oh the ruffles, the traitor ruffles! Alas for our country, wrong or right!
Alas for the heathen who sit in night!
For priest and prophet have called too late;— We are bound by the bands of a cruel fate! We have dressed in ruffles our sickly souls And what care we for the church or polls! My patience is ruffled by every call For I know on what careless ears t On ears that are stuffed with ruff

Oh the ruffles, the witching ruffles! The men are wedded to ruffles now,
To ruffles and flounces and hoops they bow, Tis all for ruffles they pine and sigh, But bless my soul, what a hue and cry, They raise about woman's pride of dress, When if they should wear one ruffle less. They'd call them dowdies and slipshod things urn in their hearts after ruffled wings! Oh the men are crazy with ruffles!

Oh the ruffles! the warlike ruffles! For priest and prophet, Czar and King, Greek, Turk, and Roman, a mighty string, Swiss, Gaul and Briton, and Dane and Fin. Of every nation and kith and kin, A Dido here and a Philip there, A Bruce and Brutus (a noble pair), Have ruffled the world for an empty name Like the cross and crescent of haughty Spain, With the spear-bought, blood-stained ruffles!

The ruffles! Ah me, the ruffles! When will the days of ruffles end And man to man be ever a friend? When shall Love fetter the wings of Hate, And Peace sit smiling o'er church and state? When the circle of time shall be complete, When the dawn and eve of creation meet When the earth renewed by a newborn light Shall be clothed in garments fresh and bright, We shall see the last of the ruffles!

#### Editorially Speaking.

A new contributor, Rustic Nell, is welcomed to the Household this week. Sing again for us, Nelly; there seems to be very few singers in our family who can rattle off the notes in the easy, dashing style that you do. Let us hear your voice often, only do not touch on political matters, or we shall be obliged to. "expunge." You will perceive we have exercised our prerogative already.

In reply to the strictures on "Slow Jamie" have not thought it necessary to make any comments on his way of treating the noted characters of the Bible, for the simple reason that it was considered what he said was only one man's opinion on matters which are liable to different interpretations by every one, and which are, in reality, of no vital consequence to any one. It is not to be supposed that no article is ever admitted into a newspaper that does not exactly correspond with the ideas of its editor. Slow Jamie and Mr. Stunner and Mr. John Farmer differ with us in many points, yet we are willing they should have a chance to express their views, believing they will work nothing immoral or pernicious among our readers. Slow Jamie's idea of keeping Noah in the ark so long after the flood was over, in order that he might not get the chill fever by coming out on the damp ground, was quite novel to us, yet it is a very sensible idea, and shows the practical light in which the writer is in the habit of viewing things. Some people may take exceptions to that, because the Bible says nothing about their being subject to the ague in those days. In the case of Esau and Jacob,

to which our friend cites us, there is a great difference of opinion among people of different temperaments. One is prepossessed in favor of Esau, another likes Jacob best, just as we see preferences given among our friends and neighbors of the present day. In our own mind, we do not consider that those who entertain a friendly feeling towards Jacob, are any more to be censured than are the admirers of his hairy brother. Both had their virtues and their faults, and there is no reason why both may not have their friends. There is no sacrifice of principle, that we can see, in loving either or both of them, as far as there is good in them to love Neither does there seem to us to be any great moral principle involved in the question about Leah's eyes. Our friend above referred to thinks " tendereyed" means that she had weak eyes; Slow Jamie thinks it means they were pretty (he did not say "beautiful"), and that they were all the charms she had to offset agains Rachel, whose features were all beautiful. This is a much pleasanter idea than to imagine that gentle, patient woman affi cted with sore eyes. Besides, poets of the present day apply the word "tender" in the same way, where it would be quite absurd to define it as meaning weak. Here is one instance:-

"When stars are in the quiet skies, Then most I think of thee; Bend on me then thy tender eyes As stars look on the sea."

Think of the lady here addressed as having weak or inflamed eyes! As to Leah, the case may not be quite so clear, it is true, still we are inclined to the merciful side of the question, whether it can be considered strictly orthedox or not.

For our own part we like to read these old stories as told in Slow Jamie's familiar way. He does not profess to be writing from inspiration, but he is a man whose calling has led him to give much thought and study to sacred things, and from his familiarity with the history of the country and characteristics of the people, as well as from the every-day, common sense way he has of telling things, he seems peculiarly fitted to throw these narratives, brief and indefinitely sketched as they are in the Bible, into a form at once pleasing and instructive to read. We do not intend to publish articles of "questionable character" or "incultating false moral principles," and are not aware that anything of the kind has all my kind friends seem bent on keeping me ever appeared in our columns, unless it might have been in the case of Mr. Stunner and John Farmer, whose principles we must say are not to be commended for general practice.

So many readers have expressed themselves pleased with Slow Jamie's Bible Stories, from the very fact that they were so pleasantly told, and so free from attempts to inculcate sectarian views, though he is himself a preach er, that we must confess to some surprise at the nature of the objections stated by our correspondent. The differences of opinion mentioned are mere matters of taste, influenced by early prejudices and education, and both may be right or both wrong without in any way affecting any question of principle or morals. We are willing to submit the case of Leah's eyes, as well as the rival virtues of Jacob and Esau, to any one who has a better knowledge of the original language in which the Bible was written than we have, and shall expect to be just as wise as we are now, whichever way it may be decided.

A very pretty illustration of dinner table gentility was given at a hotel in a neighboring city a few days since. A young couple, apparently not long married, sat directly opposite us at table. Near the bride sat a gentleman evidently an intimate friend of the busband, and acquainted with both. The little lady was very dainty as to what she would est. She sipped a spoonful or two of soup then sent it away and took some broiled fish This she minced over for awhile with her fork in one hand and a morsel of bread in the other, then sent it away and had her dessert of pie and ice cream, with which she trifled while her husband and his friend went through with a hearty meal. Being obliged to leave promptly at the business hour, the gentlemen shook hands with the lady and went out, leaving her at the table. The moment they were gone, she called the waiter and ordered a plate of boiled beef, which was brought, and she commenced in the good honest way, with both knife and fork, and made out a sensible dinner of beef, greens, etectera.

Query. Is it unfashionable for a lady to eat what she wants in presence of her hus

At the same table a little child was brought in and seated in a high chair beside his mother. His bright eyes ran over the dishes on the table in an instant, and spying some of the frozen milk in a saucer, he began calling for "keam ! keam ! ice-keam !"

some ice cream afterwards."

"No! no!" said mother's darling, with eyes staring and hands flying, "ice-keam, keam ! ice-ream ! ice keam !

He got the ice cream, of course. One sau cer-full disappeared in a few moments, and then began the call for another, followed by timid maternal remonstrances ending in a second yielding. Spoonful after spoonful the frozen stuff went into the little stomach till it could

"Now my darling will have his meat and potato, wont he?" said the tender mother.

"No; no; pie-pie; wants pie!" cried the

In vain the "goody meaty" was placed before him, and urged upon his acceptance by all the tender, nutritious qualities it poss The darling shut his eyes against the flesh and opened his mouth for pie.

Of course he got the pie and we left him in the full enjoyment of his victory.

#### An Old Maid in Trouble.

Nearly three months of leap-year had passed before I, in my simplicity, was aware of my sex's prerogatives for this year, and then I must own some few feminine scruples held me back from using my privilege. But I believe it not only wise, but expedient to use the rights that we already have, before clamoring for those we have not. If we make good and prudent use of leap-year, will it not be a strong argument in favor of farther progress?

There is no disguising the fact that, as an old maid, I am very much despised, there being no niche in the social temple in which such a triangular block will fit. It is in vain that I act up to the rules laid down for woman by her various advisers from St. Paul to Miss Mulock. I am an ugly old maid to the many, and to the pitying few, who call me friend, "a nice sort of old body, a sensible woman, a very sensible woman getting rather old, though ; pity she could not get married! Occasionally some kind body inquires if my eye-sight begins to fail, another inquires if my hair in not getting thin, and rather thinks she sees a grey hair now and then. In fact, in mind of my mortality.

And if any one has cause to mourn when any woman dies leaving a husband behind her, it is myself: for all the newsmongers in the county exclaim, in their zeal to remate the poor man, "There's Dorothy Jones-she-! I am perfectly tired of being pitied on my lonely condition. One suspects I never had an offer, and another has heard me draw a long breath, and guesses I have been disappointed some time! Now, in pure self-defence, I have determined to get married-and as I know no one to whom I would be willing to commit my fate, I must advertise!

When men advertise, they always speak of their wealth and good looks, as if these were matters of primary importance. I acknowledge myself ugly, pre-eminently so. If I excel in nothing else, I defy competition in that! I am poor too; but I recollect the very encouraging declarations of the masculine advisers, that the ugliest countenance becomes beautiful if lighted up by intelligence and that a woman always looks best in the eyes of a sensible man when plainly dressed without a single ornament! I believe I am acknowledged to be industrious, sensible, and truthful, and also, impress it on your minds, gentlemen, old, poor, and ugly!

If he were not the first he could not be expected to admire virtuous ugliness and modest deformity, and I may also add could not pos sess the second quality which I esteem valuable as it is rare! He who would rather be the deceived than the deceiver, whose soul is imbued with a love of truth for its own sake, who disdains to act as well as speak a liemust be worthy of high esteem ! If in addition to this he can talk with an opponent on politics and religion without anger, if he can patiently bear contradictions in small things, if he can see his own faults and forget those of others, in fine, if he lives up to the golden rule " Doing to others as he desires them to do to him,"-I shall believe him an Apollo in form and feature, though he should have a hump on each shoulder, be bandy legged, cross-eyed, have a nose like a duck's bill, teeth like a shark, and a scar on each cheek !

I care not for his nation, fortune, or profession; I shall not marry a house or family, but the person to whom they may or may not belong! Any one conscious of possessing

"O no; not ice cream for the first thing?" ing a wife, whose heart inclines after lying most terrific sound. Thunder and lightning said mamma. "Mother's darling boy must vanities, who claims no more sense than his added to the magnificence of the scene. Mohave some nice meat and potatoes, and then brothers, but prefers beauty and wealth to truth and ugliness, I will give them such directions as shall not fail to be of the greatest assistance.

> Noted People of the Bible. BY SLOW JAMIE. NUMBER FIFTEEN.

-More than three thousand years ago, in a country southeast of this, and near ly third way round the earth, there was a fine ady walking out one morning, when she noticed something strange among the flags which grew in the edge of the river. She sent one of her maidens to bring it out of the water. Opening a kind of a covered basket, which had been made water-tight with pitch, what do you think they found? A little baby! It was wrapped in swaddling clothes, but when they unrolled these, its little dumpy limbs were naked. She immediately adopted it for her own child. She was proud of it for three reasons. It was a very handsome child. She had discovered it first herself. And she had found it in the river Nile, which they considered a holy stream. It was a common notion among the more ignorant heathen, that the earth, the sea, and even rivers sometimes brought forth children. Saturn was the son and Cybele the daughter of the earth. Venus was brought forth by the foam of the sea. Pharaoh's daughter had too much sense to fall in with this superstition, still she worshipped the river Nile, and was pleased that she found the child there. His name which signifies 'drawn out' commemorated the circum-

The older sister of the child stood at a disance to see what would happen. Now she comes down and asks the lady if she wishes her to go and find a nurse. She is told to go, and the mother is brought. The babe, which first wept at the sight of strangers, is now pacified. When the child was weaned, it was brought to the princess and educated in the Court of Pharaoh. When forty years of age he went to see the Israelites, his brethren, and found an Egyptian beating an Israelite. He killed the former and hid him in the sand .-Another day he found two of his brethren quarrelling, and endeavored to make peace by friendly interposition. One of them answered him with a taunt, by which he learned that the secret of his killing the Egyptian taskmaster was divulged. To his bitter chagrin he found that slavery had its usual effects on his countrymen. Their spirit was broken, and a mean, fawning sycophancy had degraded their character.

He fled from Egypt, and sought the other descendants of Abraham in Arabia. As he wandered in the wilderness one day, he came across some girls, shepherdesses, who had just drawn water for their sheep. A number of rough fellows came up and claimed the water. At this juncture, Moses approached, and true to his generous nature, took part with the weak. When they went home and told the story, their father scolded them for not bringing him home to dinner. Perhaps they thought it was not their duty to do so without orders. At all events they went now and brought him to the house. Moses lived forty years with Jethro and kept his flocks. It is hardly necessary to add that he married one of the girls. It was hard for one who had been raised a Prince, surrounded with luxury. to undergo the drudgery of a shepherd's life still it was hardly so severe a discipline as Joseph underwent.

Forty years rolled round, and the force of call, out of a miraculous burning bush, to go and liberate his brethren. He was slow to undertake the mission, urging his want of eloquence, and other reasons in excuse, but at turned to Egypt.

I cannot stop to enumerate the many plagues which God brought on the Egyptians, till they were forced to let the people go .-About three million took their journey on foot, and what is remarkable there was not a sick person in all that multitude. They were pursued by an armed force. Undisciplined and badly armed, and encumbered with their children and cattle, they found themselves shut up with a mountain on one side, a bay on the other, the Red Sea before them, and the enemy behind. All at once, the sea opened them a passage. They went through and their enemies trying to follow were drowned-

At Mount Sinai, where he had first seen the burning bush, Moses again met Jehovah. A splendid appearance of light set off by darkness, descended and rested on the top of the mountain. The sound of a trumpet was these qualities, may address.

DOROTHY JONES. heard out of the cloud, at first soft and low, at lused to be so feeble that I could not even lift.

P. S.—Should there be any gentleman seek- it rose louder and louder, till it swelled into a a broom, and the least physical exertion would

ses was called by name, and went up into the cloud which enveloped the mountain. Here he received laws to govern the nation he ruled. Twice he ascended the hill. One time he remained forty days without eating or drinking, and when he returned, the joy of his heart shone out in a supernatural beauty which glowed on his face.

I cannot stop to notice the beautiful tabernacle which he built by divine direction. I cannot dwell on the many vexations with which a rebellious and sensual people annoyed him for forty years. I cannot dilate on the labor of governing and educating a rude people, to prepare a nation of slaves for self government. I can only say that it was far more laborious than keeping sheep in the wilderness, but he succeeded.

Forty years after their departure from Egypt he stood upon the plains of Moab and addressed a new generation, and one that was very different from the one he brought out of Egypt. Of the millions that stood before him, but two individuals had arrived at years of manhood when they crossed the Red Sea forty years before. His head was silvered with the experience of a hundred and twenty years, yet his iron frame retained its vigor, and his brilliant eye was undimmed with age .-He stood erect in the glory of his strength. A sea of faces spread before him, yet not one of that vast assembly could remember when he was anything but an old man. They had all grown up under his eye. He made them a great speech which we have recorded in the book called Deuteronomy. Then he sung the song recorded in the thirty-second chapter. And concluded by blessing each of the tribes separately. He complained of a slow speech and stammering tongue, but his blessing presents the loftiest strains of eloquence that human language will bear.

Having ended his last words, he turned and ascended the mountain of Aharim and from the high peak of Nebo he took a view of the land of Canaan. He had pleaded hard to be permitted to go and see the future residence of the visible church. This, however, was denied because he had manifested some pride and passion at the waters of Meribah. From the top of Nebo, God showed him the land of Canaan from Dan in the North, to Judah in the extreme South. On the same day he lay down in a valley of the mountain, and with no one near him but God, he quietly breathed his last, and his happy spirit took its flight to that paradise of which the earthly Canaan, which he so much longed to visit, was but a feeble

Moses was one of the most remarkable men that ever lived. He was the first to separate Church and State; investing Aaron with the ecclesiastical, and Joshua with the civil power; yet he himself was a prophet, priest and king. He was the meekest man that ever lived, yet the only sin recorded was passion .-His life was divided into three periods of 43 years each, and in every every one he moved in a different sphere. The humblest period was probably the happiest.

#### Household Varieties.

Agriculturally Speaking.—"Brethren," said an aged preacher at a revival meating, "I fear I must compare some here to my crop of wheat and potatoes- for you have eyes and see not, ears have ye and hear not."

A Critic.-The Art Journal says that during one of the late exhibitions of fine arts in New York, a lady who was going to show her appreciation by patronizing some artist, was overheard to pass severe judgment upon several pictures. Pausing Now for the qualifications I require in the habit had rendered a laborious life both toleman to whom I would give my humble self.

Table and pleasant, when Moses received a loudly, as if conscious of the annihilating nature of her strictures:—"How stupid that artist is! to paint a deer with so short a tail! I should have taken this picture if the deer had a fine flowing

tail."

The amiable artist happened to be present, and had to leave very suddenly for a room where it was last his scruples were overcome, and he re- in order to "roar." He is still seeking, we believe, for a deer with a flowing tail.

A correspondent of an Iowa paper has been seeing sights at the President's levee in Washington this winter. He talks in this way:-

"Buchanan is got up on a more elephantine model than I had supposed, and was the largest man I saw in that great assembly. Has a big head, neck like a bull, smooth, pleasant face, and agreeable manners. Miss Lane was the star of the evening, of course. A purist would say she was somewhat overdressed. A friend beside me remarked that she looked like Crawford's statue of Freedom, made for the dome of the Capitol.—
I might confirm the remark with the slightly exaggerated addition that she is about as large. If Lord Lyons is not in love with her, he certainly acts like a man in that romantic state of mind, for "stuck around" close enough to make his conduct appear rather singular, interpreted on any other supposition. But they do say that it is so. And I don't blame him."

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A Sensible Young Lady. -Said a young lady, who was fashionably educated at boarding schools, and indulged in idleness at home, so that there

make me ill for a week. One sweeping day I went | 1859. bravely to work, cleaning thoroughly the parlors, chambers, the front stairs and hall, after which I lay down and rested until noon, when arose and eat a heartier meal than I had for many a day. Since that time I have occupied some portion of every day in active domestic labor, and not only are all my friends congratulating me upon my improved appearance, but in my whole be-ing—mind, body and spirit—do I experience a wenderful vigor, to which I have hitherto been a stranger. Young ladies, try my Catholicon."

Victoria's Crown. - The crown worn by the Queen of Great Britain at the opening of Parliament is composed of hoops of silver, which are completely covered and concealed by precious stones, having a Maltese cross of diamonds on the top of it. In the centre of this cross is a magnificent sapphire. In front of the crown, above the rim, is another Maltese cross, in the middle of which is the large unpolished ruby which ence graced the coronet of the chivalrous Black Prince and underneath this, in the circular rim, is another immense sapphire. The arches enclose a cap of deep purple, or rather blue velvet; and the rim of the crown, at its base, is clustered with brilliants, and ornamented with \*\*Reurs-de-lis\* and \*\*Maltese crosses equally rich. There are many other precious gems—emeralds and rubles, sapphires, and small clusters of drop pearls of great price. The crown is altogether valued at over half a million of dollars. Indeed, were it possible to re-collect and again bring together such precious stones this estimate would fall much below their intrinsic value. The old crown of England, made for George III, weighed upwards of seven pounds: but, notwithstanding this gorgeous display of jew elry, independent of the gold cap, the present crown only weighs nineteen ounces and ten penny-It measures seven inches in height from the gold circle to the upper cross, and its diameter at the rim is five inches.

#### For Our Young Friends.

Poetical Enigma.

In me you find seven letters combined, No pauses to bother your pate, Directly you spell the seven letters well, In me you will find a State.

And number one, you will see, is concerning me Numbers one and two we'll have them in, And my three, one, and two, very likely suits you; I declare I don't know though it make such a din,

Now my one, three and five, as sure as you are Denotes a little girl's christian name;

In my three, four, five, six and seven, (which is a little short of eleven,) Another, but a bigger girl's name,

Now my next, you will see, has letters but three, And like the two others they are a girl's name; Indeed, as I'm alive, they are seven, three and five Now, and they read backwards and forwards the

Do not laugh at me, for you will plainly see In my seven, six, two and five a girl's name, Although there is letters four, (a good thing there is no more,)

No, or they would not read backwards and for wards the same.

And, now, I cannot find, in the seven letters combined, Indeed, but one more girl's name;

Numbers five, six and two, I think they must do, Do, or from the girls I'll not get much fame, Murengo, Aril 16, 1860. H. M. EVANS.

Scriptural Enigma.

I am composed of 24 letters.

My 13, 10, 5, 21, was a son of Adam.

My 6, 17, 20, 12, was a wife of Lamech.

My 7, 10, 4, 6, 22, 8, 2, is a book of the Old Tesarent.

ament. My 17, 20, 21. 2, 16; 19, is one of the prophets. My 7, 6, 11, 15, 8, 23, 1, is one of the apostles. My 9, 21, 14, 22. 8, was one who walked with God. My 15, 2, 7, 14, 11, 12, 24, was a bishop of Ephe

THE FARMER, EITHER NEWLY INVENTED OR AN IMPROVEMENT ON ANY NOW IN USE,")

and the exceeding strength and great simplicity of the machine must commend it to the Farming community. 14

#### EGYPTIAN CORN.

EGYPTIAN CORN.

THE subscriber offers to farmers throughout the country the EGYPTIAN CORN, which upon trial was found to ripen planted even the first of July. It is estimated, from its very prolific qualities, to yield 200 bushels per scre, and weights by sealed measure 65 pounds to the bushel. This Corn was produced from some procured direct from Mr. Jones, our Consular Agent, directly on his return from Egypt.

It needs no different culture from that of other varieties, and in the South two crops can be raised in one season on the same ground. It grows in the form of a tree, and wenty-two cars have grown upon one stalk, and will average from five to fitteen. For domestic use it is unparalleled. When ground and properly bolted, it is equal in color and fineness to wheaten flour. As a forage crop, by sowing in drills or broadcast, for early feed, there is no kind of corn so well adapted to milch cows, and note that will yield half the value in stalks or sorn.

cows, and note that will yield half the value in stake or sorn.

It can be successfully grown in any State of the Union from Maine to Texas. I can give the most satisfactory references that the corn is, in every respect, what I represent it to be, and further, I am the only person throughout the country who has this variety of corn—Having secured a quantity, I am now able to fill all erders, for those desirons of testing it.

To any person who will enclose in a letter, One Dolar, in Stamps or Currency, directed to me, I will send, postage paid, sufficient corn to produce enough to plant, the following year, from twenty to thirty acres. Also, directions for planting and cultivation.

Any person who will get up a club of sea, will receive a package gratis.

Any person who will get up a club or precent any person who will get up a club or precent any peckage gratia.

Give your full name, post office, county, and State written plain, so that no errors may eccur.

Address M. E. CRANDAL,

Address Bandwich, DeKaib Co, Illinois.

for Married Persons. Send stamp to 18-41\* E. H. ADAMS, M. D., Boston, Mass.

WINTER ARRANGEMENT. 1860.

Hard Legal - III HERAPAN project III HERAPAN III MICHIGAN SOUTHERN

DETROIT, MONROE and TOLEDO RAIL ROAD.

With its connections MONROE, CHICAGO, TOLEDO, CINCINNATI AND

With its connections, forms a Through Route from Detroit to Monroe, Adrian, Chicago, Toledo, Sandusky, Cleveland, Dayton, Hamilton, Cincinnati, Pittsburg, Wheeling, Harrisburg, Philadelphia, Baltimore, Washington, Eric, Dunkirk, Buffalo, Albany, New York, Roston Montreal, Quebec, Portland, Rouse's Point, and all polute interior, in Ohio, Pennsylvania, New York, and the New England States, and all points West and South West.

ON and after Monday, April 9th, 1860, Passenge

Trains will run as follows:

ARRANGEMENT OF TRAINS.

FROM DETROIT—Mail and Express, daily, except
Sunday, at 7:30 A. M.; arriving in Toledo at 10:15 A. M.,
connecting with the Express Train from Toledo at 10:35
A. M. (via old road), arriving in Chicago at 8:15 A. M.
Chicago and Cincinnatt Express, daily, except Sund-ys,
at 7:49 P. M., arriving in Toledo at 10:35 P. M., Adrian
11:30 P. M., connecting with the Lightning Express Train
for Chicago (via old Road), arriving in Chicago at 8:00 A.
M.

for Onleago (via old Road), arriving in Chicago at 8:00 A. M.

Toledo accommodation, daily except Sunday, at 12:15
P. M., arriving in Toledo at 4:00 P. M., connecting with Express train for Cleveland, Buffalo and New York.
FROM CHIOAGO—Mail and Express, daily, except Sundays (via old Road), at 6 A. M. and Lightning Express, daily, except Sundays, via Air Line, at 8:00 A. M., making connection with 4:05 P. M. train from Toledo at Air Line Junction, arriving in Detroit at 6:50 P. M.; Chicago and Montreal Express, daily except Saturday, at 8:00 P. M., via old road and Adrian, arriving at Detroit at 7:05 A. M.

FROM TOLEDO—Chicago and Montreal Express, daily except Sandays, at 4:15 A. M., arriving in Detroit at 7:05 A. M.

FROM
19 except Sundays, at 4:15 Å. M., arriving in 19 except Sundays, at 4:05 P. M.,
19 and Express, daily except Sundays, at 4:05 P. M.,
arriving at Detroit at 6:50 P. M.
Detroit Accommodation, daily except Sundays, at 11:00
A. M., arriving in Detroit at 8:00 P. M.

Trains from Detroit connect at Adrian with Michigan Southern Main Line for Chicago, with New Albany and Salem Railroad, at the crossing of that line, and at Chicago with all Roads for the Northwest and South.

Connect also at Adrian with Jackson Branch Trains for Jackson

Connect also at Adrian with Jackson Branch Trains for Jackson.

Connect at Toledo with Dayton and Michigan Road, for Dayton, Hamilton and Cincinnati; with the Cleveland and Toledo Road, for Sandusky, Cleveland, Pittburg, Dunkirk, Buffalo, Albany, Boston and New York; with Wabash Valley Road for Fort Wayne, and points Southwest, and with Air Line Rail Road for Bryan, Kendalville, Ligonler and Goshen.

Trains from Chicago and Toledo connect at Detroit with Grand Trunk Railroad of Sarnia, Toronto, Presscott, Montreal, Quebec, Portland and Boston; with Great Western Railway for Niagara Falls, Buffalo, Albany, New York and Boston, also with Detroit and Milwaukee Railway, for Grand Rapids, Grand Haven and intermediate Stations.

Freight Trains leave daily, except Sunday, as follows: FOR TOLEDO, at 12:15 P. M. arriving at Toledo at 4:00 P. M.

FOR CHICAGO, at 4:00 P. M., arriving at Chicago at 130 P. M.

Trains are run by Chicago time, which is Twenty
Minutes slower than Detroit time.

Woodruff's Patent Sleeping Cars accompany all
aight trains on this route.

Time and Fare the same as by any other Rail Road

Baggage checked through to all points East & West.

JNO. B. CANEPRELL.

GENERAL SUP'T, Toledo, Ohio.

L. P. KNIGHT, Agent, Detroit.

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THE Stereoscope is the most instructive, interesting entertaining, amusing, and exciting of modern inven ions.

None are too young, none too old, none too intelligent too uneducated, to acknowledge its worth and

No too incurrence to without it, and it must and will penetrate everywhere.

It presents to your view every part of the world, in all the relief, boldness, perspective, and sharpness of destil, as if you were on the spot.

Photographers are everywhere exploring Europe, Asia, Africa, America, in search of the grand and the beautiful, and the results of their skill are constantly enriching our stock.

Africa, America, in search of the grand and the beautiful, and the results of the grand and the beautiful, and the results of the grand and the beautiful, and the results of the grand and the beautiful, and the results of the results of the grand and the beautiful, and the results of the re

scenery.

Among other things we have just published Stereoscopic Illustrations of the scene of the Fulton Street Prayer Meeting, in which many hearts feel an interest. The particulars of this will be found in our catal

Ogue. Our catalogue of subjects and prices will be forwarded to any address on receipt of a stamp.

Parties at a distance sending us \$3, \$5, \$10, \$15, \$20 or \$50 can have a good instrument and such pictures as they may request, sent by Express.

Views alone, (without instrument) can be sent by mail.

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To Photographers.—First class stereoscopic Negatives wanted.

Negatives wanted,
Send by mail a print unmounted, with price of Negative.

[Cut this out for future reference.]

# SUBSOIL AND JOINTER PLOWS. Manufactured by Burnham S Co., Battle Creek, MICHIGAN. Price of Subsell Plow for one team, with draft rod, 8550.

Price of the Curtis Jointer, or double Plow, for one team, \$14.06.

A NEW, CERTAIN, and the ONLY CITEE of Nervous Debility. Its Cause, Symptoms, Et ects, and Radical Cure. By a former inferer for the benefit of young men. Enclose two stamps simply. Address Box 8191, Boston, Mass.

IT IS NOT TOO MUCH TO SAY

SINCE ALL OLD AND YOUNG, KIRBY'S AMERICAN HARVESTER!

AFFIRM ITS TRUTH, Viz: That Professor Wood's Hair Restorative

Will preserve infallibly the growth and color of the hair, it used two or three times a week, to any imaginable age. Perfectly restore the gray, cover the baid with nature's own ornament, the hair; make it more soft and beautiful than any oil, and preserve the scalp free from all diseases to the greatest age. Statesmen, Judges, Attorneys, Dectors, Clergymen, Professional men and Gentlemen and Ladius of all classes, all over the world, bear testimony that we do not say too much in its favor. Bead the following and judge:

Hickov Grave St. Charles Co. Mo. Nov. 19, 1887.

the world, bear testimony that we do not say too much in its favor. Bead the following and judge:

Hickory Grove, St. Charles Co., Mo., Nov. 19. 1857.

Prof. O. J. Wood—Dear Sir: Some time last summer we were induced to use some of your Hair Restorative, and its effects were so wonderful, we feel it our duty to you and the afflicted, to report time had been perfectly covered with sores, and some called it scald head. The hair almost entirely came off in consequence, when a friend, seeing his sufferings, advised us to use your Restorative; we did so with little hope of success, but to our surprise, and that of fill our friends, a very few applications removed the disease entirely, and a new and luxuriant crop of hair soon started out, and we can now say that our boy has as healthy a scalp, and as luxuriant a crop of hair as any other child. We can, therefore, and do hereby, recommend your Restorative, as a perfect remedy for all diseases of the scalp and hair. We are yours respectfully,

GEO. W. HIGGINBOTHAM.

Prof. Wood—Dear Sir, My hair had, for several years

SARAH A. HIGGINBOTHAM.

Prof. Wood—Dear Sir, My hair had, for several years been becoming prematurely gray, accompanied by a harshness which rendered the constant use of oil necessary in dressing it. When I commenced using your Hair Restorative about two months ago it was in that condition; and having continued its use till within the last three weeks, it has turned to its natural color, and assumed a softness and lustre greatly to be preferred to those produced by the application of oils or any other preparation I have ever used. I regard it as an indispensable article for every lady s toilet, whether to be used as a Hair Restorative or for the simple purpose of dressing or beautifying the hair. You have permission to refer to me all who entertain any doubt of its performing all that is claimed for it.

MES. C. SYMONDS, Cincinnati, O., Feb. 10, 1857.

Wellington, Mo., Dec. 5, 1857.

Cincinnati, O., Feb. 10, 1857.

Cincinnati, O., Feb. 10, 1857.

Prof. Wood—Dear Sir; By the advise of a friend of mine, who had been using your Hair Restorative, I was induced to try it. I had the fever, some time last May, and nearly every hair in my head came out. Now my hair has come in a great deal thicker than ever it was. Nothing but a duty and sympathy that I leel to communicate to others who are afflicted as I have been, would induce me to give this public acknowledgment of the benefit I have received from Prof. Wood's Hair Restorative. Yours respectfully,

A. R. JAOOBS.

The Restorative is put up in bottles of 8 sizes, viz: large, medium, and small; the small holds ½ a pint, and retails for one dollar per bottle; the large holds a quality at least twenty per cent, more in proportion than the small, retails for two dollars per bottle; the large holds a quality and 114 Market St., St. Louis, Mo.

And sold by all good Druggists and Fancy Goods Dealers.

#### SUMMER COMPLAINTS. Viz: Diarrhea and Cholera Morbus. and Flatulent and Spasmodic Colics.

WE, the undersigned, have for several years pas

B. FOSGATE'S ANODYNE CORDIAL, and during this period have witnessed its salutary effect in curing the diseases for which it is recommended, viz Acute and Chronic Diarrhea and Cholera

Morbus, in our own, and in the lamilies of our customers, and have also seen its successful administration in cases of

nave also seen its successful administration in cases of CHOLERA INFANTUM.

We do, therefore, confidently recommend it to all those who may be afflicted with those distressing and dangerous complaints, as offering one of the best means for their cure or relief: their cure or relief:

W. Bristol, Utica,
J. J. Foor, Hamilton,
L. Passons, Westfield,
S. Whitz & Son, Fredonia, L. Relly & Co., Geneva,
A. P. Curris, Attica,
W. Sraver & Son, Batavia, J. Owen & Co., Detroit,
J. G. Bableer, Leroy,
T. Bradle, Elmira,
A. I. Matthews, Buffalo,
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N. B. Li ta particularly useful to Children when

L. B. SWAN, Kochester, CARTER & BRO, Eric.

N. B. It is particularly useful to Children when
Teething, as it allays irritation, induces moderate
perspiration and produces sleep.
PRICE 26 CRAYS. For sale by J. S. CUTHBERT & Co.,
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C. N. TUTTLE, General Agent,
16-6m
Auburn, N. Y.

#### NORTHVILLE FOUNDRY and Machine Shop.

IN the village of Northville, at the old stand of C. G. HARRINGTON, may be found a large stock of the

LATEST IMPROVED PLOWS, of every style and variety now offered in the Eastern or Western market. Plows which for durability and light-ness of draught, are equalled by few and surpassed by none. The subscriber is also manufacturing

Cultivators, Drags, Sawing Machines, Iron Wares,

and in fact almost everything that can be cast, carved or turned, necessary to meet the growing wants and increasing demand of the Farmer and husbandman. Having secured workmen of long experience and well established reputation to superintend every department of the business, he trusts his facilities for the manufacture of all the above mentioned works, also, for

most kinds of Machinery, are equalled by very iew in-land towns in the State.

Feeling thankfal for the large and liberal patronage which he has heretofore enjoyed, he would here ago. which he has heretofore enjoyed, he would here say, that he still hopes by untiring dilligence and prompt attention to business, not only to retain all of his old friends and customers, but greatly enhance the number at the expiration of the present year.

Northville, Mich., March 27, 1860.

14 8t

DEALERS IN FRUIT TREES

WILL find at the subscribers a very large stock of trees wand plants, suited to the fall trade—(500,000 8 year apple trees, with other stock to correspond).

Persons selling, or about to sell trees in the west, for fall delivery, are invited to make us an early call. We are disposed to deal liberally with them, and furnish them with trees indigenous to the soil and climate of the west, saving them the exposures attendant on shipments from nurseries four or five hundred rulles eastward. A few intelligent, industrious men can obtain agencies for sale of our stock.

A large trade has heretofore been done at this place, in trees trafficked for in the east, but this year our neighbors have also good stocks of their own growth. We have always raised our own trees offered for sale. Our premises are at the head of Broadway, 2 miles above the Oliver house. Address as below.

HALL & CO., Hickory Grove Nursery, Toledo, Ohio.

THE WETHERSFIELD SEED SOWER FORSALE at PENFIELD'S, 108 Woodward avenue.

SEEDS, SEEDS! PRESH SHAKER SEEDS, of LAST YEARS
I growth and warranted. Also, Spring Wheat Sweet
Potatoes of several kinds, King Philip, Flour, Dutton
Kight Eowed and Sweet Corn, Timothy, Clover, Barley
Pens, dec., at

108 Woodward Ave Detroit.

New Rochelle, Lawton, Blackberry. TINE PLANTS, carefully packed and sent according I to directions, at One Dollar per dozen. Five dozen for Four Pollars; ten dozen for Six dollars. Direct to THARLES BETTS, Burr Oak, Mich.

THE BEST MACHINE IN THE WORLD.



The Most Valuable Implement for the Farmer.

Contains the most valuable Improvement of any Harvester in Use."

WE have the pleasure of offering Farmers the Improved Kirby's American Harvester for 1860, which stands now unrivalled for facility of operation, lightness of draft, adaptation to never surface, strength, simplicity and durability; and is pronounced by all who have tested the various machines in use, to be the most complete combined Reaper and Mower "either newly invented, or an improvement on any now in use." First Premiums at State Fairs and Trials

BEST REAPER AND MOWER COMBINED. BEST KEAPER AND MOWER COMBINED.

At the last New York State Fair, it was the only Harvester that received a Premium among some forty machines on exhibition. The Judges awarded it a Silveer Medal and Diploma, as "The most valuable Machine or Implement for the Farmer, either newly invented or an improvement on any now in use." They say in their report: "We fink the improvements put upon this machine since the last State Fair are of such a character as to justly entitle it to this award; and the exceeding simplicity and great strength of the machine must commend it to the farming community."

At the Wisconsin State Fair, last fall, it attracted especial attention, and after a very careful inspection by the Committee, was honored with three Diplomas—as a Mower, a combined Reaper and Mower, and for the one-horse Harvester.

At the Michigan State Fair last fall, it received the

At the Michigan State Fair last fall, it received the 1st Premium as the Best Combined Reaper & Mower. At the Tennessee State Fair last fall it received the 1st Premium as the best Combined Reaper and Mower. At the Tennessee State Trial last summer, it received the First Premium as the Best Combined Reaper and Mower.

At the last Indiana State Trial, it received the First Premium as the best Combined Reaper and Mover. rremium as the best Combined Reaper and Mover.

At the Indiana State Fair n 1888, it received the First
Premium as the best Combined Reaper and Mover.

All premiums on machines as Mowers only, or Reapers only, do not recommend to farmers what they want,
viz:—

THE BEST COMBINED REAPING AND MOWING

THE BEST COMBINED REAPING AND MOWING
MACHINE.
The Factory Price of the Improved Harvester for
1860, will be \$185; for Mower, \$10; for Little Buffalo
Harvester, \$100—Mower, \$90.
For further particulars address
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11-8m
Toledo, Ohio.
The Harvesters are sold by the following agents in
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#### HOWE'S IMPROVED HAY OR CATTLE SCALES! THE BEST IN USE.

FIRST PREMIUM OVER FAIRBANKS, at Vermon

FIRST PREMIUM OVER FAIRBANKS, at Vermont I State Fair. '57 and '58.
FIRST PREMIUM and no competition in 1859.
FIRST PREMIUM at 18 different State Fairs.
SIVER & BRONZE MEDALS at American Institute Fair, N. Y., 1859.
Howe's Scales Fon All Uses, have Great Simplicity, Wonderful Accuracy.
Require no Pit: may be set on top of the ground, or on a barn floor, and easily removed.
No Check Rod: No Friction on Knife Edges; all friction received on Balls. Weigh truly if not level.
Delivered at any Railroad Station in the United States or Canada, set up, and warranted to give entire satisfaction or taken back.
Send for Circulars and price lists, with account of trial of Scales between Howe and Fairbanks, at Vermont State Fairs, to JAMES G. DUDLEY,
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## CAST STEEL BELLS, For Churches, Academies, Fire Alarms

Factories, &c, FROM SHEFFIELD, ENGLAND,

HAVE been tested in all climates. Europe and America. Weigh less; cost less per pound; have better tones; can be heard farther than other bells. They cost cent. less than
THE BEST COMPOSITION BELLS.

BROKEN BELLS TAKEN IN EXCHANGE, Or re-cast on short notice. Such bells will hearty pay for Steel Bells of same size. Send for Circular. Bells delivered in all parts of the United States or Canada, by JAMES G. DUDLEY, 44-1y 98 Main st., Buffalo, N. Y. Buch bells will nearly pay

HERRING'S PATENT Fire and Burglar-Proof Safes, WITH HALL'S PATENT POWDER-PROOF LOCKS HAVE NEVER FAILED

IN MORE THAN 300 DISASTROUS FIRES. The Safest and Best Safe in Use. Delivered at any Railroad Station in the United State or Canada, at the very lowest rates, by JAMES G. DUDLEY, Sole Agent, 44-1y at 98 Main st., Buffalo, N. Y.

PEACH TREES! PEACH TREES! POE SALE—6,000 Peach Trees, of the most approved R kinds, as: Early and Late Crawford, Troth's, Large Early York, Old Mixon, Ward's Late Tree, Serrate Early York, Rese, etc.

ork, Rose, etc.

Trees 4 to 5 feet, \$10.00 per 100; \$50.00 per 1000.

7.00 " 60.00 " 6

Prince Albert Potatoes for Sale. WARRANTED GENUINE. Price One Dollar per W bushel, including packages; two bbls, to one order, Five Dollars: delivered at the R. B. depot. Address ASA U. SUTTON, Tecumseh, Mich. March 11th, 1966.

Seeds and Plants by Mail. Seeds and Funts by Fittee.

2,000 20 Lawton Blackberry rote outings, \$1.
260 Wilson, Peabody, or Hooker Strawberries, \$1.
2 cunces arctic Pearl Corn, ripens in 7 weeks, \$1.
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Packages sent free by mail. Send for a free circular of the Lyons Nursery.

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12 Im THE BEST MACHINE AND NO MISTAKE.

For the Harvest of 1860.

Double Hinge-Jointed and Folding Bar BUCKEYE

MOWER AND REAPER, Aultman & Miller's Patent,

OF CANTON, OHIO. MANUFACTURED BY

Waters, Lathrop & McNaughton, JACKSON, MICHIGAN.

A Perfect Mower,

A First Class Reaper, It has proved to be

THE MOST DURABLE MACHINE AND OF THE LIGHTEST DRAUGHT. And it works

MORE EASILY & SURELY THAN ANY OTHER.

IT IS THE MACHINE.

This fact is so well established by the Farmers themselves, that there is no longer any occasion for our incomparable list of GOLD MEDALS AND FIRST PREMIU

National, State and County Fairs,

What we wish now to say the Farmers of Michigan

that any of them who have not yet ordered one of these machine,

they want it FOR THE HARVEST OF 1860, they should loose no time in ordering it from us

from one of our Agents, viz: Gen'l Agt. for the State, E. ARNOLD, of DEXTER.

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The reputation of the Buckeye is so well established (embraeing All. real improvements and having some peculitär to tisely which no other machine has or car mary) that we have no fear that intelligent farners in our State, who can procure this, will purchase any other either for mowing or reapping.

WATERS, LATHROP & McNAUGHTON.

Jackson, March Si, 1860.

WROUGHT IRON PLOWS, Subsoil Plows, Harrows, Grubbers, DRAINING TOOLS, Sc.

The Plows, Harrows and Subsoilers wers awarded the First Premium of the Michigan State
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THE undersigned is now prepared to receive orders and to make all kinds of improved plows, cultivators

and to make all kinds of improved plows, cultivators and ditching and draining tools.

THE SUBSOIL PLOW, of wrought Iron, has received the sanction and approval of the Highland Agricultural Society of Sociand, and is considered of the very best models for that kind of work.

THE SCOTCH-AMERICAN PLOW made by me, is of wrought iron, and is got up on the most approved nodel, possessing a lighter draft, and turns a cleaned furiow and does superior work. The style of mouldboard is new in this country. This plow is made with either ron or wooden beam and handles. Those made solely of iron cost \$25. The plow complete with wooden beam and handles, costs \$18, with wrought iron points, wheel on beam.

and handles, costs \$18, with wrought from points, wheel on beam.

THE WROUGHT IRON HARROWS are made also after the most approved model, and have been tried and found satisfactory.

The undersigned also makes Wrought Iron Grunsers, con Cultivators, and sets of Direning and Draining Tools, Wheel and Lever Root Cultivators, and Iron axis Farm Carrs, all of the most approved and finished workmanship.

The Reference may be made to the Editor of the Michigan Farmer. All orders may be addressed to 10-2m.

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Nansemond Sweet Potato Plants. DY THE MILLION, from May lst to July, put up so as to carry in good order 1000 miles. Price, 400 \$1, 1000 \$2, 5000 \$9, 10,000 \$15. My plants have grown fine rops 44 degrees north. Send for my circular containing ulf directions for cultivation and the experience of those who have grown them. Address

M. M. MURRAY,

11-cowtf Fruit Hills, Loveland, Clermont co., 0,

IMPORTANT TO FARMERS.

FORGE BEARD, Wholesale dealer in Oysters Fruits, Game, &c., will pay the highest market price for Choice Fruit of all kinds, Game, Poultry, &c. Bassell House Corner. Detroit.

HARD TIMES NO MORE, 2 Any person (Lady or Gentleman) in the United States, possessing a small capital of from \$8 to \$7, can enter into an easy and respectable business, by which from \$6 to \$10 per day can be realized. For particulars, address (with stamp)

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Wheeler & Wilson's Sewing Machine PROM 145 JEFFERSON A VENUE, TO ROOM
No. 1 MERRILL BLOCK

O. M. PARTRIDGE, Gen'l Agent, 12-tf Successors to L. D. &. H. C. Gurege.

CUMMING'S PATENT HAY, STHAW AND STALK CUTTRE the best in use, by hand or horse power, at PENFIELD'S AGRI WARRHOUSE, Detroit, Dec. 30, 1858.

## MICHIGAN FARMER. R. F. JOHNSTONE, EDITOR.

Publication Office, 130 Jefferson Avenue, DETROIT, MICHIGAN.

S. FOLSOM, WOOL DEALER, 90 Woodward Avenue,

DETROITE CARROLATE MICHIGAN.

## THE MARKETS.

#### Breadstuffs.

We notice this week that there has been a decided improvement in the demand for flour and grain, and with that demand prices have advanced. Flour may be set down as being worth about 25 cents per lb. more in this market than it was was at this time last week.—Sales have been made of good extras at \$5 67% 60 12%. Sales are now made for shipment, and there are buyers from the east who are preparing to take advantage of the ppening of the New York canals at the earliest moment. There is also prospect of a more active demand ment. There is also prospect of a more active demand for export at New York, and especially for the best grades of white Michigan wheat. The demand for red and mixed wheats is always easily

supplied, but sor choice white, grown clean and free from mixture, there is always a market at the extreme rates. Such wheat at present commands \$170 in the New York market, and ranks with the best Kentucky New York market, and ranks with the best Kentucky white, which always bears the highest rates. In the street good samples of white wheat brings \$1.32 and for red \$1.22@1.25 is off red according to quality. The system of inspection adopted here is doing much to establish the character of the grain and flour that goes from this State; and also to keep it separate from inferior kinds that come here merely for storage.

Corn—Has advanced somewhat, sales being made from store for shipment at 53 cents, and 50 cents is paid in the street.

Oats-Are worth 86 cents, and show quite an advance. Barley—Good prime sells at \$1 20@1 25 per 100 lbs. Corn meal and Feed—Remain steady, with a good

Eggs.—Are not quite so plenty as they have been, and prices are somewhat better.

Apples—Are now bringing good prices, Very prime winter apples well selected and sound are worth \$4 25@ 5 00 per bbl. Dried apples are worth \$1 40 per bushel.

Hay—Is not so firm as it was, the stock being consider ed ample for all demands upon it.

Potatoes—Are quite plenty, and we note no change in prices for them. It seems doubtful whether they will have much of an advance this season, though it may be sa the season selvances, and farmers get busy with their work that there will be a less supply and consequently better prices.

Live Stock, &c.

The entile supply here collines to be good. Drovers and parties who have been reading through the winter are bringing forward very many good, eattle, and seem to be anxious to sell. We dote the sale this week of several years at \$100 peans. Sheep are selling from 40 as found to the latter weight to the latter weight to the latter weight to found to the latter weight to found to the latter weight to the latter weight from 40 as pounds. Heaver sheep bring the outside figure. The pelts of such sheep, where they are fine wooled, ring from \$2.00@2.25, and some have been sold at the latter figure. Common grade pelts bring from \$1.500. 175 according to the quality of the wool. Hogs are steady at 6 cents. Caives of good size and quality are coming into market, freely and sold at prices ranking from \$2.500.400 and \$5.00.

from \$2.50@4.00 and \$5.00.

The May York market reports this week show a very full supply of cattle at the east, with no advance upon the decline of last week. Good fair cattle are worth in is that market at the present data but 21% cents according to the estimate and very faw were add at 10 cents according to the estimate and very faw were add at 10 cents or each the prime. We mote that the New Tork Tribusers marks relative to the market: "There is not the least prospect or any considerable rise in the price of ballocks this apping, and if butchers will accept at a reasonable graft, every body can afford to est reast beet."

profit, every body can afford to ent reast beef?"

The wool market does not present any new features
this week. Here the sales are altogether confined to
period varieties, of which there is a good stock on faind
both here and at the east. About 4,600 Be. have been
purphased during the past week at prices ranging a sinde
lewer than these of last week for the coarser kinds, and
it wite for this very best prices. The light stock of
ficees, wool that remains on hand is spoken of generally
by eastern reports, and tends to keep up the rates. This
complete densimption of the whole of last year's the is
generally allowed by the manufacturers, and owing
chiefly firstill bitshies in fasted into this handufcturers
the hight imports of goods of last autumer. This year chically for the presence in traced into the manufacturers by the light imports of goods of lest assumer. This year there are vary heavy imports, and the consequence is a dull market and overstock of goods, and less consumption. We shall not, therefore, he much surprised to see a considerable desire on the part, of buyers, to around prices downward from this time till the close of the wool market, by representations that the demand will not admit of paying the priose asked by the growers

CECRET ART OF CATCHING FISH, in any water, O se late as you can pull them out, sent for To Ca. This is no humbur. Address: This is no humbur. Address: This is no humbur. Address: This is no control to the control to

DRAIN TILE:
WE KERF CONSTRAINT ON HAND THE
W. different kinds of Drain Tile at
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Wilson's Albany Seedling Strawberry. Por half. Fifty Thousand, at two dollars per thou-sand, or three dollars for five hundred; packed in most and appropriate the Expression E. E. respict of the GH VO Bridgewater, One its co., N. Y.

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1800 PICTORIAL ILLUSTRATIONS.

IN WAIL TOLDING OF TOO PAGES.

PRECE 16004 BOLY BY ALL BOURSELLINGS.

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10 30 G. & O. MERRIAM, Springledt Mos.

The trade supplied by F. RAYMOND & Co., Detroit.

# STOCK BREEDERS' COLUMN.

S. BROOKS, WEST NOVI, MICH,

BREEDER OF SHORTHORN CATTLE. POR SALE, twenty head of pure bred Shorthorn stock, bred from recent importations, ranging from calves to four year old bulls and helfers.

For further information apply to A. S. BROOKS, 11-3m\* West Novi, Oakland co., Mich.

DURHAM BULL FOR SALE. THE thorough bred Durham bull KENTUCKY, de1 scribed in No. 48 of Michigan Stock Register, (See
Mich. Farmer, Sept. 1887, can be bought at a reasonable
price. Calved July 8, 1856. Sire, Robin 918 A. Daur,
Daphne got by Mercer 701 A. Bobin was bred by H.
Clay, Jr., of Kentucky. This bull was brought to Michigan in 1857. For further particulars inquire of
12-1m JAMES BIRNEY, Bay City, Mich.

TOR SALE—A four year old Stallion of Messenge and Mambrino Chief trotting stock—of dark brown color, and symmetrical form. He was sired by Mambrino Chief, owned by Hon. James B. Clay, of Ashland Kentucky; his dam was one of Col. Thompson's blooded mares. He can be seen at the residence of 12-1m JAMES BIENEY, Bay City, Mich.

VALUABLE HORSE STOCK

VALUABLE HORSE STOCK

Offered at Private Sale.

THE subscriber having been engaged in breeding from the most valuable strains of therough bred and full bred trotting and road horses for several years, is now prepared to dispose of a number of his young stock on liberal terms, and he calls the attention of those who desire to procure animals for breeding to the colts he offers for sale. An opportunity is now given to breeders to make a selection from stock bred from the best horses that have ever been introduced into Michigan or the western. States. The list comprises colts from ten months to five years old, of thoroughbred, half and three-quarter bred, and full bred trotting parentage on both sides. Amongst them are some of the closest bred and fullest bleoded Messenger stallion colts to be found any where, also colts bred from the stock of Giencoe, Boston, Imported Stoneplover, Abdallah, Vermont Black Hawk and Long Island Black Hawk, all of them remarkable for size, style and action.

For further particulars address

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April 4th, 1860. 14tf.

Detroit, Mich.

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#### CAHOON'S PATENT BROADCAST SEED SOWER



For Sowing Wheat, Oats, Barley, Gras

For Sowing Wheat, Oats, Barley, Grass Seeds, &c.

THE HAND MACHINE sows from four to sight acres per hour at a common walking gait, throwing out Wheat about forty feet wide and Grass Seed twenty feet. The HORSE POWER MACHINE at the usual walking gait of a horse sows from ten to fifteen acres per hour, throwing Wheat about sixty feet at each passage. The vast superiority of this machine over all others, as shown in the perfectly regular and even distribution of the seed, and the wonderful rapidity with which the work is performed, combined with their perfectsimplicity and durability, have already placed them in the front ranks of labor saving agricultural implements.

\*\*EA saving of three-fourths of the labor and one fourth of the seed used in hand sowing is effected by using these machines. A person entirely unused to sowing by hand, can use either machine with perfect success. They are warranteu to give perfect satisfaction and to save their cost in less time than any other farm implements, of in sourced.

Large numbers of these machines have been sold, and in all instances, when proper care has been used in their operation, they have given the most perfect satisfaction. These machines can be purchased of Agents in all the principal places in the State. For further particulars eddress.

P. B. SANBORN.

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Office at B. B. & W. R. Novies' Hardware Store, 86 Woodward Avenue Defroit, Mich.

DAINES' AMERICAN

#### DAINES' AMERICAN DRAIN TILE MAKER. The Best and Cheapest Tile Machine in the World.

ty-one first Premiums awarded to it at State and County Fairs. First botto Premium at the National Fair, at Louisville, Ky., 1857.

The THE MACHINE invented by JOHN DAINES of Birmingham, Oakland county, Michigan, is now being manufactured in the most thorough manner, and is offered to the farming community as the

Cheapest Most Labor-Saving and Most

and enabling farmicks to make their own Tiles, that has yet been put before the Agriculturists of the United States, at a reduced price.

These machines are made of Iron, are easily worked any man being able to manufacture a first rate article after a rew hours practice.

affer a few hours practice.

They cost delivered in Detroit only \$100. They have two dies for three and four inch tile; and extra dies to accompany the machine dots \$200 wheth.

These machines will manufacture per day, according to the force employed, from 1.50 TO 2.50 RODS OF HORSENDE OF PIPE TILE. The machine weighs

HORSESHOE OR FIFE TILE. The machine weigns but 500 pounds, and can be packed sind sent to any part of the United States, or to foreign countries, as easily as a plane, With this machine, any farmer who has a fair quality of clay on his farm, can manufacture his own Tiles at a cheap rate, and easily save the price of the machine by avoiding this cost of transportation. The machine when in operation, takes up no more room than an ordinary sized kitchen table; it may be worked by two or three men as may be found must convenient and conomical, or a man and two boys can keep it in full operation.

Ore: Samplicity (Aburability) Economy, Cheapness, and amount of work, sold this Tile Maken Challenges royle the Worldby of Dalamo

At the present time, when thereugh draining has become a necessity on alluvial lands, it offers the simplest and cheapest means of furnishing farmers with a draining more did fir apperinc jointy jother material now used for that purpose.

purpose.
Applications for these matchines may be address
JOHN DAINES.
Birmingham, Mich.

THE WILLIS' STUMP PULLER

S the most powerful and most sconomical machine in use for pulling stumps and will clear a field in lea-ime than any other invention of a like kind. time than any other invention of a like kind.

Twenty-three stumps have been pulled with this May
ching spirst have consigned windless. The underlying have
will sell machines and rights to use and menufacture in
any part of Michigan except the counties of Hillsdake
Branch, Wayne, Washtenaw, Jackson, Calhoun, Kalamaso, Yan Buren, Maccamb, Genesee, Bhiavasse, Saginaw
Instola and St. Char, which are already sold.

All necessary information as to prices, and mode of using, will be given on application to

INAVID BLACKON MERRY President.

or to R. F. GUNNY HOME, Editor Michigan Farmer,
The Magnines are manufactured as the Jackson
motivel Warks from the best Lake Superior Iron: W[8]

## SANFORD'S LIVER INVIGORATOR.

TT is compounded entirely from Gums, and has become an established fact, a Standard Medicine, known and approved and is now resorted to diseases for which it is it confidence in all the recommended.

It has cured thousands who had given up all merous unsolleited certishow.

who had given up all merous unsolletted certishow.

The dose must be adapt the individual taking the new possession to the individual taking the new possession to the individual taking the new possession to the individual taking the Bowels.

It the dictates of your the use of the LIVER and it will cure LIVER and it will cure LIVER the Bowels.

Habitual Costive lera, Cholera Morriant um, Flature entery, Dropsy, Habitual Costive lera, Cholera Morriant Habitual Costive lera, Cholera M

SANFORD'S PAMILY CATHARTIC PILLS

COMPOUNDED FROM Pure Vegetable Extracts, and put up in GLASS CASES, Air Tight, and will keep

in any climate.

The Family Cagentle but active Catharhas used in his practice.

The constantly increasing the faction which all express induced me to place them. The Profession well tharties act on different the proposition of the bowels.

Induced me to place them
The Profession well
thartics act on different
The FAMILLY CAhas, with due reference to
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frequently, if neglected,
Fever, Loss of AppeSemantion of Cold
R e stiessness,
weight in the head
Diseases, Worms
Adults, Rheumaof the Blood and many
heir, too numerous to men
Dose, 1 to 3.

PRICE 30 CENTS.

Dose, 1 to 8.
PRICE 30 CENTS. The Liver Invigorator and Family Cathartic Pills are retailed by Druggists generally, and sold wholesale by the Trade in all the large towns.

S. T. W. SANFORD, M. D.,

Manufacturer and Proprietor,
81-1yr.tf 885 Broadway, New York.

## AYER'S SARSAPARILLA.

A Compound remedy, designed to be the most effectual Alterative that can be made. It is a concentrated extract of Para Sarsaparilla, so combined with other substances of still greater alterative power as to afford an effective antidote for the diseases Sarsaparilla is reputed to cure. It is believed that such a remedy is wanted by those who suffer from Strumous complaints, and that one which will accomplish their cure must prove of immense service to this large class of our afflicted fellow sitizens. How completely this compound will do it has been proven by experiment on many of the worst cases to be found of the following complaints:—
SCROPULA AND SOROFULOUS COMPLAINTS, ERUPTIONS AND ERUPTIVE DIEMARES, ULCERS, PIMPLES, BLOTCHES, TUMORS, SALT REEURS, SCALD HEAD, SYPHILES AND SYPHILITIC APPEDITONS, MERCURLAL DISEASE, DROPSY, NEURALGIA OR THE DOULOUREUX, DEBILITY, DYSPEPSIA AND INDICESTION. ERYSPELAS, ROSE OR ST. ANTIONY'S FIRE, and indeed the whole class of complaints arising from IMPURITY OF THE BLOOD.

This compound will be found a great promoter of health, when taken in the spring, to expel the foul humors which fester in the ffesh at that season of the year. By the timely expulsion of them many rankling disorders are nipped in the bud. Multitudes can, by the aid of this remedy, spare themselves from the endurance of foul eruptions and ulcerous sores, through which the system will strive to rid itself of corruptions, if not assisted to do this through the natural channels of the body by an alterative medicine. Cleanse out the vitiated blood whenever you find its impurities bursting through the skin in pimples, eruptions, or sores; cleanse it when you find it is obstructed and sluggish in the veins cleanse it whenever its foul, and your feelings will tell you when. Even where no particular disorder is felt, people enloy better health, and live longer, for cleansigh the bkin in pimples, eruptions, or sores; cleanse it whenever you find its obstructed and sluggish in the veins cleanse it whenever it is foul, an

masting neature. Sconer or later something must go wrong, and the great machinery of life is disordered or overthrown.

During late years the public have been misled by large bottles, pretending to give a quart of Extract of Saraparilla for one dollar. Most of these have been frauds upon the sick, for they not only contain little, if any, Saraparilla, but often no curative properties whatever. Hence, bitter and painful disappointment has followed the use of the various extracts of Saraparilla which flood the market, until the name itself is justly despised, and has become synonymous with imposition and cheat. Still we call this compound Saraparilla, and intend to supply such a remedy as shall rescue the name from the load of obloquy which rests upon it. And we think we have ground for believing it has virtues which are irresiatible by the ordinary run of the diseases its intended to cure. In order to secure their complete eradication from the system, the remedy should be judiciously taken according to directions on the bottle.

PREPAREND BY

DR. J. C. A Y ER & CO.,

Price, \$1 per Bottle; Six Bottles for \$5. All our remedies are for sale by J. S. Farrand, Detroi and by all Druggists every where. 6-8m

> J. L. HURD & CO. DETROIT MICH.

Produce and Shipping Merchants Agents and Consignees for the following Lines:
AMERICAN TRANSPORTATION COMPANY.

CAPITAL \$900. WESTERN TRANSPORTATION COMPANY. CAPITAL \$900,000

AND THE NEW YORK CENTRAL R. R. Co. We would respectfully announce to the Millers, Mer-hants and Manufacturers of Michigan, that the recent eduction of Canal Tolls on the Eric Canal, will enable a to carry eastward, from Detroit, FLOUR, WHEAT, CORN, OATS, WOOL, ASHES,

And all other products of Michigan, at prices much below these of former years. Our lines are THE MODEL LIKES OF THE COUNTRY.

J. L. HURD & Co.,

Milyrambow 80 F Foot of Second-st.

Horse Powers, Threshers and Cleaners!

DATES & AND 40 HORSE, EMERYS 1 AND 2 to those (tread). Fowers, Posse's Excelsior Powers, Come and cob. Mile. Corn. Mile and Feed Mile. Flour Mile. Gross-cutand Circular Saw Miles. Leonard Smith a Bunut. Machines. Tracks of Corn. and Ave., Detroit.

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MAGNA CHARTA.

WILL serve mares from the 20th of April to the 15th of July, at \$50 the season. A mare served and not proving in foal, can be returned the next season (or another in her place) without extra charge.

MAGNA CHARTA'S performances last season are unparalleled by any four year old. He trotted in June at the Utica Horse Show in 237%, on a hair mile track.

In August, at the Kent County Show, Grand Rapids, in 241%, on a summer fa'low.

At the National Fair at Chicogo in 236, on a heavy half mile track (equalling the Great Western champion Relates in competition for the same premium.

At the Michigan State Fair beating stallions of all ages with ease in 246,

At the Kalamazoe Horse Show in October he made a third heat 2:83%.

Where sent to the horse will be pastured at fifty cents a week.

F. V. SMITH & CO.

# STONE PLOVER.

THIS IMPORTED thoroughbred horse will stand during the spring season of 1960, at the PARKER FARM, one and a half miles northwest of Kalamazeo, Mich., commencing April 15, and closing on the 16th of July next.

STONE PLOVER is without exception the best bred horse in the United States, and stands at the lowest price, being \$35 for the season; the money to be paid at the time of first service, or an approved note given for the

amount.

Good pasture furnished for marcs sent from a distance at 50 cents per week. All escapes and accidents to be at the risk of the owner.

Good pasture furnished for mares sent from a distance at 50 cents per week. All escapes and accidents to be at the risk of the owner.

\*\*PREDIGEREE AND HISTORY.\*\*

Stone Plover was bred by the Right Honorable Earl Spencer, at Althorp in Northamptonshira, England, and was foaled in the spring of 1850; was sold at his annual sale of yearlings in 1851 to Count Bethyany, and never was out of the possession of the Count until sold to the present owner, who made one season with him in England previous to his importation into Michigan.

Stone Plover was stred by the renowned Cotherstone, winner of the Derby in 1843; his dam was Wryneck, by Slane, the sire of Merry Monarch, winner of the Derby, and of Princess, winner of the Oaks, and one of the most renowned sires of winners in Great Britain. Stone Plover was own brother to Stilton, winner of the great Metropolitan Stake at Epsom in 1852. Wryneck was out of Gitans by Tramp, sire of the winners of the Derby in 1832 and 1838, of the winner of the St. Ledger in 1828, and of Trampoline, the dam of imp. Glencoe; Gitans was out of Miss Foy by Walton, sire of Phantom, winner of the Derby in 1811, and of St. Patrick, the winner of the St. Ledger in 1820. Walton was by the great St. Peter, bred by Lord Derby and winner of the Derby in 1787. The stock from whence the dam of Stone Plover was bred is thus shown to be in the first rank for stoutness and high breeding.

stock from whence the dam of Stone Plover was bred is thus shown to be in the first rank for stoutness and high breeding.

Cotherstone was bred by the celebrated Mr. Bowes, and is by Touchstone out of Emma by Whisker, the dam of imported Trustee. Touchstone is now Bl years old, and requires no comment, as his progeny by their unparalleled success bear testimony to the deserved repute in which he and his stock are held. Surplice, the winner of the great Derby and equally great St. Leger Stakes, now standing at \$260 per mare, and Newminster, winner of the Et. Leger, at the same price. Annongst his progeny may be named Bluebonnet, winner of the Oaks, Mendicant, winner of the Oaks, Handstein Leger, at the same price. Annongst his progeny may be named Bluebonnet, winner of the Oaks, Mendicant, winner of the Oaks, Flatentcher, Frogmore, Lord of the Isles, Annandale, Storm, Touchwood, and others. Cotherstone, considered the best son of Touchstone, won more money for his owner as a three year old than any horse that had been bred up to that date. At New Market in 1848 he won the Riddlesworth stakes of \$400; the next day won the Column Stakes of the same amount; on the first of May he won the Two Thousand (Suinea Stakes, or \$10,000; and he 90th of May won the Derby stakes of \$100; on the 21st of July at Goodwood won the Gratwicke stakes of \$10,000; in September ran second for the St. Leger at Doneaster and won \$1,000; the next day won a sweepstakes of \$10,000; and finally at the New Market meeting in October won the Royal Stakes of \$6,825. Cotherstone was then sold to his present owner, Lord Spencer, by whom he has been kept in his private breeding establishment up to the present time. The above particulars are on record in the English Racing Calendar and Stud-book.

Stone Plover is a magnificent bay horse, sixteen hands and one inch in height, standing on particularly short, strong legs, and is of great length, strength and substance. He is warranted a sure foal getter. Independent of his great racing qualities, he is well calculated to elevate the character, stamina, size, style and action of trotting, carriage and farm horses, to become the sire of a race of horses remarkable for size, spirit, endurance, and great beauty of form, being himself of the most beautiful color, fine symmetry, large size, majestic carriage and superbaction; all of which is bred into him, being inherited from ancestors the most ronowned in the annals of the tur in Great Britain. He is also free from defects, and is marked with neither curbed hocks, splints, spavins, ringbones twisted ankles, upright joints, or any other imperfection, and is perfectly sound in the wind.

Stone Plewer has made two seasons in Michigan, and a class of his sucking colts were shown at the State Fair of 1859 for a premium offered by me of fifty dollars, being the largest individual premium ever offered by any member of the Society. These colts are now coming forward as yearling, and amongst their owners are E. N. Wilcox, Esq., of Detroit; Judge Dexter, of Dexter; E. Arnold of Dexter, John Thomas of Oxford, Dr. Ransom of Kalamazoo, L. S. Treadwell of Hudson, A. D. Power of Farmington, and other breeders, to whom the subscriber refers for the character of the coits of Stone Plover. All show that this horse has the power of transmitting his best qualities and of stamping his progeny with his characteristics.

For further particulars address the subscriber,

Kalamazoo, Michigan.

Notice is also given that Stone Plover will make a fall season at the farm of the subscriber at Cooper's Corners, Plymouth, Wayne county, Mich., to commence the 20th July and to terminate the last day of October, at \$50 per mare.

#### ADMIRATION.

THIS Imported Thoroughbred Stallion will stand at the Stables of

A. L. HAYS, Marshall, Calhoun Co., Mich..

TERMS.

The terms of service will be Twenty-five Dollars, payable at the time of service, or in approved notes.

The season will commence on the first of April and end on the first day of July. All mares proving not with foal will be entitled to service free from charge the next following season. DESCRIPTION. Admiration is a rich bay, sixteen hands high, coming four years old and perfectly free from blemishes of any kind. He possesses immense bone and muscle and was pronounced by the most competent judges to be one of the most perfect theroughbred horses in England. He is thoroughly calculated to produce stock that will combine blood with bone and first class symmetry. He obtained the first prize at the Yorkshire Agricultural Show in 1853 for the best colt calculated to get Hunters and Carriage horses. He served a few mares in England last season and proved himself a sure foal getter.

Admiration was bred by Mr. Johnson of Driffield Farm, Driffield, Yorkshire, England. Sire Sir Nestor by Ion. Dam Polonaise by Provost. He was purchased by Col. Magnire of Texas, now deceased, and imported last January into New Orleans, where he was sold by the executors of the estate and purchased by the subscriber, who may be addressed for further particulars.

Marshall, Mich., 1860.

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A. L. HAYS.

#### The Young Bashaw Trotting Stallion KEMBLE JACKSON,

W.L. stand for mares the coming season at Spring Brook Farm, adjoining the village of Farmington, Oakland county, Mich., commencing April 4th.

KEMBLE JACKSON will stand at \$20 the season. Money to be paid when mare is first served or a good note given for the amount.

Good pasture furnished at fifty cents a week. All accidents and escapes at owner's risk. Season to close on the 30th day of July, 1860.

Pedigree of Kemble Jackson:

KEMBLE JACKSON—Mahogany bay, 16 hands high. Star in his forehead; hind feet white half way up to the gambrel joints. Foaled June 14, 1854. The property of Isaac Akin, Paulding, Dutchess Co., N. Y. Sire, Kemble Jackson; dam, Lady Moore, half-sister to Iola. Kemble Jackson was by Andrew Jackson; his dam, Fanny Kemble, sister to Charles Kemble, and sired by Sir Archy; her dam was Maria, sired by Gallatin: Maria's dam was got by Simms' Wildair, she out of a mare got by Mortun's Traveler; her dam was an imported mare, name unknown, but thoroughbred.

Andrew Jackson was by Young Bashaw; dam by Why-not, by Imp. Messenger; Young Bashaw was by the Imp. Tripolitan Barb, Grand Bashaw; Young Bashaw's dam was a daughter of Messenger, said to be thoroughbred.

Lady Mcore was out of Messenger Maid, by Membrino Paymaster; he by Old Membrino, by Imp. Messenger. GEO. F. GREGORY, Agent. F. E. ELDRED, Detroit.

# The Superior Trotling Stallion,

ROEBUCK ABDALLAH, m BEED from the purest Messanger stock, will stand this season at the stables of the subscriber on the Pontiac Boad, at the Greenfield House, six miles from Detroit.

TERMS, \$15 FOR THE SEASON.

ROEBUCK ABDALLAH is a beautifu. bright chestnut horse, standing sixteen hands high, and of a particularly compact, strong muscular form, with his body set low on powerful limbs. For style and action this colt man os superior, and as he has never been used for stock purposes, but allowed to come to his present growth and age, he is in full vigor, with every mark of a sound and strong constitution. As a horse calculated to breed strong, active, useful farm and road stock, of superior size and quality, and with great action and speed on the road, he is offered to the public.

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ROEBUCK ABDALLAH will be five years old on the 5th of next June, and was bred from Abdallah Chief, a horse brought into this State at an expense of over \$2,000, in 1855. Abdallah Chief was by Abdallah; he by Mambrino; and he by imported Messenger. The dam of Abdallah Chief was the Mathew Barnes mare (well known in New York,) by Phillips; her dam by Decatur by Henry, that ran against Eclipse; Phillips was by Duroc, his dam by imported Messenger.

The dam of Roebuck Abdallah is Lady Washington by the trotting stallion Washington, sire of Rose of Washington; he by Napoleon; he by Young Mambrino; he by Chancellor, out of a mare sired by imported Messenger; and he again by imported Messenger. Napoleon's dam was by Commander; he by Commander, he by imported Messenger. Commander's dam was by imported Light Infantry, said to have been by English Eclipse. It will thus be seen that on both sides Roebuck Abdallah will be finited to twenty-five mares only, in addition to the stock of the proprietor.

For further particulars apply to

Greenfield, Wayne Co., Mich., April 4, 1860.

14 Near the Six Mile House, Pontiac Road.

#### The Celebrated Spanish Jack, BLACK HAWK,

WILL stand for Marcs during the coming season, commencing April 12th, and closing October 1st, 1860:

At Spring Brook Farm, near the village of Farmington, on Mondays, Tuesdays and Wednesdays. At James Roots, Plymouth, on Friday and Saturday of each week during the season. PEDIGREE.—Black Hawk is a pure Spanish Jack; color black; good proportions: fourteen hands high; a years old this spring. His Sire was by "Old Mohawk" of Virginia; g. sire, "Mammoth" of Spain. Dam, the

mine years old this spring. His Sire was by "Old Mohawk" of Virginia; g. sire, "Mammoth" of Spain. Dean, "Royal Gift Jenny."
"Royal Gift Jenny."
TERMS.—For Mares, ten dollars the season, money to be paid, or a good note at three months given when the Mare is first served. All mares at the owner's risk.
Jennies will be served at fifteen dollars the season.
The subscriber, wishing to purchase all the mules got by said Jack, will pay from \$25 to \$90 for all sound mules stred by him. The mules to be delivered, of sound and healthy formation, at the Spring Brook Farm, at the age of five months—bargains in all cases to be made before the mare is put, in which case no charge will be made for the nase of Jack. George F. Gregory is authorized to contract for the Mules, and his contracts will be fulfilled by me. I will give a premium of \$10 for the Best Mule, and one of \$5 for the Fattest Mule, to be determined by disinterested men after the mules are delivered to me.

March 29, 1860.

F. E. ELDRED.

# The Young Trotting Stallion

ISLAND JACKSON,

Will accompany the Jack the coming season, and will serve marcs at \$7 the season; \$10 to insure.

Pedigree of Island Jackson:

Is Blood Bay, 15½ hands high, fealed July 5, 1835. Sire, Jackson by Andrew Jackson; dam, Belfounder.—
Andrew Jackson was by Young Bashaw; dam, Why-not by Imp. Messenger. Young Bashaw by the Imp. Tripolitan Barb, Grand Bashaw; dam, Messenger.

F. E. ELDRED, Detroit.

GEO. F. GREGORY, Agent.